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BULLETIN OF INFORMATION

Thirty-fourth Series, No. 39

June 30, 1934

ANNOUNCEMENT OF THE

GIFT

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1934-1935



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630 WEST 168TH STREET
NEW YORK

Columbia University Bulletin of Information

Thirty-fourth Series, No. 39

June 30, 1934

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1. Reports of the President and Treasurer to the Trustees.
 2. The Catalogue Number, Directory Number, and the Announcements of the several Colleges and Schools and Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent without charge upon application to the Secretary of the University.
- C. U. P. 5,000—1934.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to The School of Dental and Oral Surgery, 630 West 168th Street; telephone Billings 5-6000.

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1934-1935



630 WEST 168TH STREET
NEW YORK

- HAROLD JUDSON LEONARD *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915.
Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital.
- ²CHARLES CHRISTIAN LIEB *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906.
Consultant in Pharmacology, Presbyterian Hospital, Mount Sinai Hospital.
- WILLARD COLE RAPPLEYE *Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (Hon.), Yale, 1922.
- ARTHUR TAYLOR ROWE *Professor of Dentistry*
D.D.S., Minnesota, 1906.
Attending Dental Surgeon, Presbyterian Hospital; Consultant in Dentistry, State Training School for Boys, Warwick, N. Y.
- LEUMAN MAURICE WAUGH *Professor of Dentistry*
D.D.S., Buffalo, 1900.
Consultant in Orthodontia, New York Orthopedic Dispensary and Hospital, New York Infirmary for Women and Children.
- HORATIO BURT WILLIAMS *Dalton Professor of Physiology*
A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
Consultant in Physiology, Presbyterian Hospital; Consulting Physician, Greenwich Hospital.

OTHER OFFICERS OF INSTRUCTION

- DOROTHY H. ANDERSON *Instructor in Pathology*
A.B., Mt. Holyoke, 1922; M.D., Johns Hopkins, 1926.
Second Assistant Attending Pathologist, Presbyterian Hospital.
- EMERIC ANGELUS *Assistant in Dentistry*
D.D.S., Columbia, 1931.
- EDMUND APPLEBAUM *Instructor in Dentistry*
D.D.S., New York College of Dentistry, 1922.
- HOWARD T. APPLGATE *Assistant in Dentistry*
D.D.S., New York College of Dentistry, 1919.
- WILLIAM WELLS BAADE *Assistant in Dentistry*
D.D.S., Minnesota, 1921.
- HENRY ULYSSES BARBER, JR. *Instructor in Dentistry*
D.D.S., Pennsylvania, 1916.
- HENRY ARTHUR BARTELS *Instructor in Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
- WALTER REGINALD BEAVEN *Instructor in Pharmacology*
D.D.S., Columbia, 1926.
- SAMUEL BIRENBACH *Instructor in Dentistry*
D.D.S., New York College of Dentistry, 1917.
Visiting Oral Surgeon, Morrisania Hospital.
- SOLON NATHANIEL BLACKBERG *Instructor in Pharmacology*
D.V.M., Cornell, 1918; B.S., Texas Agricultural and Mechanical, 1926; Ph.D., Tulane, 1928.
- RICHARD M. BRICKNER *Associate in Neurology*
B.S., Columbia 1921; M.D., 1923.
- MAURICE BUCHBINDER *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1917; D.D.S., Columbia, 1925.
- LESTER RICHARD CAHN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917.
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE SAMUEL CALLAWAY *Instructor in Dentistry*
D.D.S., Pennsylvania, 1923.
Attending Orthodontist, Fifth Avenue Hospital, Polyclinic Hospital.

²Absent on leave Winter Session.

- RUSSELL LEGRAND CARPENTER *Associate in Anatomy*
B.S., Tufts, 1924; Ph.D., Harvard, 1928.
- KENNETH FULTON CHASE *Instructor in Dentistry*
D.M.D., Tufts, 1928.
Attending Dental Surgeon, New York Eye and Ear Infirmary; Clinical Assistant, Roosevelt Hospital.
- CLARENCE O. CHENEY *Professor of Psychiatry*
A.B., Columbia, 1908; M.D., 1911.
Director, New York State Psychiatric Institute and Hospital.
- KENNETH STEWART COLE *Assistant Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Assistant Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- WILLIAM HOPKINS CRAWFORD *Associate Professor of Dentistry*
D.D.S., Minnesota, 1923.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914.
- LOUIS BASIL DOTTI *Instructor in Physiology*
B.S., Columbia, 1929; A.M., 1931.
- WALTER F. DUGGAN *Instructor in Physiology*
A.B., Columbia, 1923; A.M., 1925; M.D., 1927.
- JAMES MORSE DUNNING *Assistant in Dentistry*
A.B., Harvard, 1926; D.D.S., Columbia, 1930.
- ADOLPH ELWYN *Assistant Professor of Neurology*
B.S., Columbia, 1915; A.M., 1917.
- JACOB ERDREICH *Assistant in Dentistry*
D.M.D., Tufts, 1931.
- HAVEN EMERSON *Professor of Public Health Practice*
A.B., Harvard, 1896; A.M. and M.D., Columbia, 1899.
- HERBERT HENRY ERNST *Instructor in Dentistry*
D.D.S., Minnesota, 1922.
- ABRAHAM FIRESTONE *Instructor in Anatomy*
A.B., College of the City of New York, 1920; M.D., Columbia, 1924.
Assistant Urologist, Mount Sinai Hospital.
- FREDERICK BONNER FLINN *Associate Professor of Physiology in*
A.B., Johns Hopkins, 1900; Ph.D., Columbia, 1923. *Industrial Hygiene*
- JOSEPH OCTAVIUS FOURNIER *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1913.
Dental Consultant, Marine Hospital, U. S. Public Health Service.
- EDWARD SETTLE GODFREY, JR. *Clinical Professor of Epidemiology*
M.D., Virginia, 1900.
- LEO JOSEPH HAHN *Instructor in Physiology*
Ph.D., Yale, 1914; M.D., 1918.
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902.
Associate Attending Dental Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint Diseases; Chief, Periodontia Department, Beth Israel Hospital.
- FRANKLIN HOLLANDER *Research Associate in Dentistry*
B.S., Columbia, 1919; Ph.D., 1923.
- HOUGHTON HOLLIDAY *Assistant Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917.
Assistant Attending Dental Surgeon, Presbyterian Hospital.

- KATHERINE FLORENCE HOLLIS *Assistant Professor of Dentistry*
Certificate in Oral Hygiene, Columbia, 1921.
- EARL BANKS HOYT *Assistant in Dentistry*
D.D.S., Pennsylvania, 1918.
- MARY CAROLINE HRUBETZ *Instructor in Physiology and Pharmacology*
A.B., California, 1920; A.M., Columbia, 1928.
- MELVILLE HUMBERT *Instructor in Pharmacology*
A.B., Columbia, 1923; B.S., 1924; D.D.S., 1926.
- IRVIN L. HUNT, JR. *Instructor in Dentistry*
D.D.S., Pennsylvania, 1929.
- MOSES L. ISAACS *Instructor in Sanitary Science*
A.B. and A.M., Cincinnati, 1921; Ph.D., 1923.
- MAXWELL KARSHAN *Associate Professor of Biological Chemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- EUGENE J. KELLY *Instructor in Dentistry*
D.D.S., Pennsylvania, 1928.
- BARRY G. KING *Instructor in Physiology*
A.B., California, 1924; A.M., 1925.
- CHARLES I. LAMBERT *Professor of Psychiatric Education in Teachers College*
B.S., Iowa, 1901; M.S. and M.D., 1903.
Attending Psychiatrist, Vanderbilt Clinic; Assistant Consultant, Presbyterian Hospital, Sloane Hospital.
- GEORGE FRANK LINDIG *Instructor in Dentistry*
D.D.S., Minnesota, 1924.
- JULIUS K. LITTMAN *Instructor in Anatomy*
M.D., Long Island College Hospital, 1926.
Assistant Adjunct in Surgery, Bronx Hospital.
- ALFRED BARNES LONGACRE *Assistant in Pathology*
B.S., Wesleyan University, 1929; M.D., Columbia, 1933.
Intern in Pathology, Presbyterian Hospital.
- JOSEPHINE EMILY LUHAN *Assistant Professor of Dentistry*
D.D.S., New York College of Dental and Oral Surgery, 1912.
- L. VOSBURGH LYONS *Instructor in Neurology*
M.D., Columbia, 1917.
- EWING CLEVELAND McBEATH *Associate Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921.
- FRANCIS STEPHEN McCAFFREY *Assistant Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915.
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon, Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Junior Oral Surgeon, Manhattan Eye, Ear, and Throat Hospital; Assistant Attending Oral Surgeon, Vanderbilt Clinic; Consulting Oral Surgeon, Manhattan State Hospital.
- MORELL DION MCKENZIE *Instructor in Dentistry*
D.D.S., Minnesota, 1917.
- DONALD JOHN W. McLAUGHLIN *Instructor in Dentistry*
D.D.S., Minnesota, 1926.
- JOSEPH L. MCSWEENEY *Assistant in Dentistry*
D.D.S., Tennessee, 1920.
- HENRY MILCH *Instructor in Anatomy*
A.B., Columbia, 1916; M.D., 1916.
Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct Surgeon, Riverside Hospital.

- MILTON R. MILLER *Assistant in Dentistry*
B.S., Columbia, 1928; D.D.S., 1930.
- EDWARD GERALD MURPHY *Instructor in Dentistry*
D.D.S., Michigan, 1924.
- ROBERT W. NORTHROP *Instructor in Dentistry*
D.D.S., Michigan, 1928.
- ARMAND M. OPPENHEIMER *Special Lecturer in Dentistry*
A.B., College of the City of New York, 1926; B.S., Columbia, 1927; D.D.S., 1929.
- ENID TRIBE OPPENHEIMER *Instructor in Physiology*
B.Sc., London, 1908.
- WALTER WALKER PALMER *Bard Professor of the Practice of Medicine*
B.S., Amherst, 1905; Sc.D., 1922; M.D., Harvard, 1910; Sc.D., Columbia, 1929.
Director of Medical Service, Presbyterian Hospital; Consulting Physician, Sloane Hospital.
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914.
Assistant Attending Oral Surgeon, Presbyterian Hospital; Instructor in Surgery, College of Physicians and Surgeons; Consultant in Oral Surgery, Swedish Hospital, Vassar Hospital, Grasslands Hospital.
- HORACE O. PARRACK *Research Assistant in Physiology*
A.B., West Virginia, 1929; A.M., Columbia, 1932.
- EARLE BERNARD PHELPS *Professor of Sanitary Science*
B.S., Massachusetts Institute of Technology, 1899.
- HENRY JOSEPH POWELL *Assistant in Dentistry*
B.S., Manhattan, 1928; D.D.S., Columbia, 1931.
- JOHN FRANKLIN RALSTON *Instructor in Dentistry*
D.D.S., Marion Sims Dental College, 1903.
- FRANK ELMER RIAN *Instructor in Dentistry*
D.D.S., Buffalo, 1905.
- MAURICE N. RICHTER *Assistant Professor of Pathology*
B.S., Columbia, 1919; M.D., 1921.
Assistant Attending Pathologist, Presbyterian Hospital.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- THEODOR ROSEBURY *Instructor in Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Instructor in Dentistry*
B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930.
- EDWARD J. RYAN *Assistant in Dentistry*
B.S., Columbia, 1928; D.D.S., 1930.
- BENJAMIN SALZER *Instructor in Neurology*
M.D., Zurich, 1911.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922.
Associate Attending Dental Surgeon, Presbyterian Hospital; Oral Surgeon, O.P.D., Mount Sinai Hospital, German Polyclinic; Consulting Oral Surgeon, Jewish Memorial Hospital.
- ALEITA H. SCOTT *Assistant Professor of Physiology*
A.B., Hunter, 1912; Ph.D., Columbia, 1923.
- ERNEST LYMAN SCOTT *Associate Professor of Physiology*
B.S., Ohio Wesleyan, 1902; M.S., Chicago, 1911; Ph.D., Columbia, 1914.
- ALBIN ROBERT SEIDEL *Instructor in Dentistry*
D.M.D., Tufts, 1927.
Assistant Director of Dental Service and Associate Attending Dental Surgeon, Presbyterian Hospital.

- AURA EDWARD SEVERINGHAUS *Assistant Professor of Anatomy*
B.S., Columbia, 1916; A.M., 1920; Ph.D., 1929.
- HARRY H. SHAPIRO *Instructor in Anatomy*
D.M.D., Tufts, 1918.
Attending Dentist, Cornwall Hospital.
- ADELAIDE ROSS SMITH *Associate in Medicine in Industrial Hygiene*
A.B., Wellesley, 1916; M.D., Cornell, 1921.
- GILBERT PERCIVAL SMITH *Instructor in Dentistry*
D.D.S., Minnesota, 1927.
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; Cornell, 1910; Ph.D., 1912.
Associate Consultant in Anatomy, Presbyterian Hospital.
- IRVING J. SPERBER *Special Lecturer in Dentistry*
D.D.S., New York College of Dentistry, 1918.
- MEYER RUSSELL STEIN *Instructor in Dentistry*
D.D.S., New York University, 1927.
- ELIAS L. STERN *Instructor in Anatomy*
B.S., Columbia, 1920; M.D., 1922.
Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.
- FERDINAND A. STEWART, JR. *Instructor in Dentistry*
A.B., Pennsylvania, 1921; D.D.S., 1924.
- LEWIS RIDDELL STOWE *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1916.
Assistant Attending Dental Surgeon, Presbyterian Hospital.
- OLIVER SMITH STRONG *Professor of Neurology and Neurohistology*
A.B., Princeton, 1886; A.M., Columbia, 1892; Ph.D., 1896.
Consultant in Neuropathology, Vanderbilt Clinic.
- HARRY STRUSSER *Special Lecturer in Dentistry*
D.D.S., New York University, 1918.
- ARTHUR CRANSTON TOTTEN *Instructor in Dentistry*
D.D.S., Pennsylvania, 1926.
- MILTON SCOTT TUCKER *Instructor in Dentistry*
L.D.S., D.D.S., Royal College of Dental Surgeons, Toronto, 1928.
- GENEVA HASTINGS WALLS *Instructor in Dentistry*
Dental Hygiene Diploma, Forsyth Dental Infirmary, 1917.
- PAUL BENJAMIN WIBERG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1920.
- EDITH L. WILE *Instructor in Physiology*
A.B., Vassar, 1921; M.S., Yale, 1923.
- HAROLD WOODRUFF *Assistant in Dentistry*
D.D.S., Minnesota, 1918.
- HARRY ALLEN YOUNG *Assistant Professor of Dentistry*
D.D.S., Indiana, 1919.
- MORRIS A. ZIMMER *Instructor in Dentistry*
D.D.S., New York University, 1918.
Attending Dental Surgeon, Beth Israel Hospital, Newark, N. J.
- DANIEL E. ZISKIN *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1917.
Assistant Attending Dental Surgery, Presbyterian Hospital.
- JAMES F. B. ZWEIGHAFT *Instructor in Physiology*
A.B., Columbia, 1922; A.M., 1923; M.D., 1927.
- RAYMUND L. ZWEMER *Assistant Professor of Anatomy*
A.B., Hope, 1923; Ph.D., Yale, 1926.

VOLUNTARY ASSISTANTS

JOSEPH G. ALBERT, D.D.S.	A. ALAN GREENE, D.D.S.
RALPH BECKER, B.S., D.D.S.	WARREN S. HOUSTON, D.D.S.
FRANK E. BEUBE, D.D.S.	CLIFFORD JOHNSON, D.M.D.
DONALD McL. BISHOP, D.M.D.	JESSE L. LEFCOURT, B.S., D.D.S.
RAYMOND M. BRISTOL, D.D.S.	WILLIAM LEFKOWITZ, D.D.S.
CHARLES R. BUSHONG, A.B., D.D.S.	WILLIAM MALARICK, D.M.D.
W. M. CLARK, B.S., D.D.S.	WILLIAM MILLER, B.S., D.D.S.
ROSE COHEN, D.D.S.	LOUIS A. SAVORITO, D.D.S.
ROBERT M. DEVINE, B.S., D.D.S.	HERBERT F. SILVERS, B.S., D.D.S.
SAMUEL B. DRELLICH, D.D.S.	NATHAN STOFKY, D.D.S.
LOUIS FELDMAN, B.S., D.D.S.	WILLIAM A. VERLIN, A.B., D.D.S.
MARY GOLDFARB, D.D.S.	JACOB M. ZINNER, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

Director, HAROLD J. LEONARD, D.D.S., B.S.
Assistant Director, ALBIN R. SEIDEL, D.M.D.

Attending Dental Surgeons

ADOLPH BERGER, D.D.S.	HAROLD J. LEONARD, B.S., D.D.S.
LEROY L. HARTMAN, D.D.S.	FRANCIS S. MCCAFFREY, B.S., D.D.S.
ARTHUR T. ROWE, D.D.S.	

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	JOSEPH SCHROFF, B.S., M.D., D.D.S.
ISADOR HIRSCHFELD, D.D.S.	ALBIN R. SEIDEL, D.M.D.

Assisting Attending Dental Surgeons

HOUGHTON HOLLIDAY, A.B., D.D.S.	LEWIS R. STOWE, D.D.S.
DANIEL E. ZISKIN, D.D.S.	

Interns

DAVID B. HUNN, A.B., D.M.D.	EDWIN JOHN SMITH, A.B., D.M.D.
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PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

Attending Oral Surgeon, HENRY S. DUNNING, M.D., D.D.S.
Assistant Attending Oral Surgeon, DOUGLAS B. PARKER, M.D., D.D.S.

COMMITTEES

Administration

Acting Dean RAPPLEYE (*Chairman*), Professors BODECKER, H. S. DUNNING,
HARTMAN, LEONARD, ROWE, and WAUGH

Curriculum

Professor ROWE (*Chairman*), Professors BERGER, BODECKER, HARTMAN, KARSHIAN,
LEONARD, LIEB, and RICHTER

Library

Professor ROWE, *School of Dental and Oral Surgery Representative*

Extension and Postgraduate Courses

Professor WAUGH (*Chairman*), Professors BERGER, DIAMOND, and H. S. DUNNING

Research

Professor BODECKER (*Chairman*), Professors BERGER, CAHN, CRAWFORD,
DIAMOND, HELLMAN, and Dr. STEIN

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Secretary of the University</i>
_____	<i>Director of University Admissions</i>
CHARLES C. WILLIAMSON, Ph.D., Litt.D.	<i>Director of University Libraries</i>
ROGER HOWSON, A.M.	<i>Librarian</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
CHARLES S. DANIELSON	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Superintendent of Buildings and Grounds</i>
REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
WILLIAM H. MCCASTLINE, M.D.	<i>University Medical Officer</i>
HERBERT B. HOWE, A.M.	<i>Director of Men's Residence Halls</i>
W. EMERSON GENTZLER, A.M.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.B.	<i>Alumni Secretary</i>

SCHOOL OF DENTAL AND ORAL SURGERY

GENERAL INFORMATION

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work; but in 1784 it was reopened as Columbia College. In 1912, the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center where it occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The College of Physicians and Surgeons in which the fundamental medical science subjects are given adjoins it, the halls of the two being continuous. In adjacent wings, the halls of which are continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course of dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental departments of the College of Physicians and Surgeons.

STUDENTS

A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a non-matriculated student with permission to attend such courses of instruction as he is qualified to take but not as a candidate for a degree, certificate, or diploma in regular course. Non-matriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Non-matriculated students may receive formal statement of the satisfactory completion of any course.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls, the receipt by him of academic credits, his graduation, or the conferring of any degree or the granting of any certificate are strictly subject to such exercise of the disciplinary power of the University as may be necessary to enforce the rules of the University and to maintain standards of personal conduct and character acceptable to the University. In the exercise of academic discipline, the student's conduct outside as well as inside the University will be taken into consideration.

The disciplinary authority of the University is vested in the President in such cases as he deems proper, and subject to the reserve powers of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Diplomas are issued at Commencement, in February and October (in the case of the A.M. degree, at Commencement, in February and December, or, in the case of the Ph.D., Med.Sc.D., and the Jur.Sc.D. degrees, upon completion of the requirements; also in August for the D.D.S. degree, and the B.S. degree in Optometry).

An application for a degree or certificate, other than the Ph.D., Med.Sc.D., or the Jur.Sc.D. degrees terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar on the last pages of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing are required to notify the Registrar immediately.

The Dean of the school or faculty concerned, may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions under which the departments of instruction are grouped, may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 56,000 volumes and about 30,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center and is open to students from 9 a.m. to 10 p.m., on week days.

This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, and teachers of the combined schools and Presbyterian Hospital Unit. It has a seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received 500 current journals, and nearby will be shelved the bound volumes of the most important journals covering a period of approximately ten years. In addition, the more important reference works, the systems of medicine and surgery, some of the German *Handbücher* and other bibliographical tools will be available for intensive research work.

The book collections are systematically arranged under the Library of Congress classification, and the serials shelved in a strictly alphabetical order, so as to insure quick service and prompt delivery over the loan desk.

The dictionary catalogue in the lobby, with its author, subject, and title entries, should be freely consulted as a guide and index to the subject matter in the combined collections of the library.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University dormitories at

Morningside Heights, and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry, and supplement the special collections available in the College of Physicians and Surgeons, and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dentistry.

University Gymnasium. The Gymnasium is situated on Morningside Heights, and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dentistry may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education who is assisted by a corps of able instructors.

Employment. The Appointments Office located in Earl Hall is the central placement department of the University through which students and graduates are referred to suitable positions.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

The University Medical Officer, DR. W. H. McCASTLINE, has direct supervision of all matters affecting the health of the student body. All cases of illness, especially communicable diseases, should be reported to him promptly. The Medical Officer and the members of his staff hold office hours daily in Earl Hall for the medical care of students and members of the staff.

RESIDENCE HALLS

All students registered within the University regularly pursuing their courses of study are eligible for residence in University Residence Halls. The University

desires its students to live whenever possible in the Residence Halls which are a part of the education development and life of Morningside Heights. These Halls, owned and controlled by the University, are located on or immediately adjacent to the Campus, afford easy access to library and laboratories, and should provide for students companionship with persons of like interest. Within several of the Residence Halls and in the University Commons, dining rooms are maintained by the University and administered by skilled dietitians. Infirmaries are maintained for the exclusive use of students in the Residence Halls. Assignment of room is made on the academic year basis but rentals may be paid on session, monthly, or in case of need, weekly basis.

Application blanks for rooms and copies of Residence Halls Announcements, giving floor plans and dormitory regulations, will be furnished on request by the Secretary of the University, 213 Library.

Residence for Men

The four Residence Halls for men are located on South Quadrangle with accommodations for approximately 1,350 men. Hartley Hall and the fifth, sixth, and seventh floors of John Jay Hall are reserved primarily for the undergraduate students of Columbia College. Furnald Hall is primarily reserved for law students while Livingston Hall and the eighth to the fifteenth floors of John Jay Hall are for graduate and professional school students.

Adequate restaurant facilities are provided in John Jay Hall and a combination room and board rate is offered to all residents.

Room fees for the academic year range from \$130 to \$234. The lower-priced rooms are assigned as scholarship awards by special application to the Secretary of Appointments.

The University infirmary for men is located on the top floor of John Jay Hall. The services of the infirmary are exclusively available to residents of the dormitories.

Residence for Women

Graduate and professional women within the University live in Johnson Hall where rooms and dining hall give admirable opportunity for group life. Ample social rooms are provided. Attention is called to the table of estimated expenses on page 23 of this Announcement. It is possible that the rates may be appreciably lowered for the academic year 1934-1935.

The University infirmary for women is located on the top floor of Johnson Hall. The services of the infirmary are exclusively available to residents of the dormitories.

In cases of financial emergency for students of excellent standing already at the University, some grants-in-aid are available, applicable to Residence Halls fees. Applications should be made to the head of the Hall.

Residence in Barnard College and Teachers College

Barnard College maintains dormitories for undergraduate women. When space is available graduate women, particularly when graduates of Barnard College, will

be received in residence. Dining facilities are provided for students in Barnard College.

Teachers College maintains five Residence Halls. In Whittier Hall rooms and dining facilities are offered for women students. In Seth Low Hall rooms without dining facilities are offered women students. Bancroft Hall, Grant Hall, and Sarasota Hall contain apartments in which housekeeping can be carried on and which are especially adapted for the use of married students.

RESIDENCE BUREAU

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the University Residence Bureau in Earl Hall.

KING'S CROWN HOTEL

The King's Crown Hotel, located at 420 West 116th Street, in close proximity to the University, is owned by the University and operated by the Knott Hotels Corporation. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main floor, reached by the Campus entrance, are the Residence Bureau and the office of the Secretary of Appointments. On the upper floor are the offices of the Chaplain of the University and his staff. An auditorium seating 400 people is used by musical and dramatic organizations. The lower floor, entered from Broadway, is occupied by the office of the University Medical Officer.

UNIVERSITY BOOKSTORE

The medical branch of the University Bookstore is situated in Room B-441 of the College of Physicians and Surgeons. Medical and dental textbooks, whenever such discounts are permitted by the publishers, and other supplies are sold at discounts from the usual prices. The store is open from 8:30 a.m. to 8:00 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services, with substantial savings to Columbia students. Students having deposit accounts with the University may also make withdrawals at the Bookstore.

For the benefit of students wishing to buy or sell used medical or dental textbooks there is operated a second-hand exchange in connection with the Medical Center Bookstore, Room B-441. Details of the operation of the exchange may be had in the Bookstore.

REQUIREMENTS FOR ADMISSION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application by March 1 in order to be passed upon by the Committee on Admissions at an early date. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is attendance for three full years at an acceptable college of arts and sciences, which must include successful completion of ninety-four points as rated by Columbia College, and of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

English composition and literature, 6 semester hours.

Physics, 6 semester hours.

Biology, 6 semester hours.

Chemistry (including an approved course in organic chemistry), 12 semester hours.

Inasmuch as an understanding of the medical sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary and so difficult to attain in later years.

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected.

Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

In order that the best selections may be made from among the candidates who are eligible for admission, all applicants who are eligible will be requested to report at the Dean's office for a personal interview some time prior to the final action of the Committee on Admissions. Those who remain on the eligible list after a personal interview will be given an examination as to mechanical ability and manual dexterity. This test will be given at various times during the year. It will consist of exercises in mechanical and free hand drawing, metal filing, and moulding in plastic material, and will be conducted by the technic teachers in the School.

Fee on Admission. A fee of \$50 is payable by the applicant within ten days of his receipt of notice that he has been accepted for admission. A check to the order of Columbia University should be returned by the accepted applicant with notice that he intends to matriculate. If the applicant registers within the prescribed registration dates in September, this fee will be credited on his tuition account. If he fails to register the fee lapses and will be used by the University to meet the cost of its administrative and overhead charges in caring for applicants who do not finally register.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work.

No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Course in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

Admission to Advanced Standing. Students will not be admitted to advanced standing upon examination, but only upon a satisfactory record from their school of previous residence. Provided they are eligible for the dental student qualifying certificate required by the New York State Department of Education and can submit evidence of the satisfactory completion of the entrance requirements of this school previous to entrance to any dental school, candidates who have completed, without condition, one or two years of study in a dental school registered in the state of New York including courses equivalent to those given at this school are eligible to apply for admission to the second or third years, respectively. Students applying for admission to the third year must have passed the partial examination of the New York State Board of Dental Examiners.

Owing to the lack of uniformity in the arrangement of the first and second year curricula in the various dental schools a transfer can usually be accomplished with the least adjustment at the end of the second year.

Application blanks may be obtained from the Dean's office.

SUMMER SESSION

No regular courses will be offered during the Summer Session in 1934. Students who have successfully completed all of the requirements of the third year may elect work in clinical practice, without credit, beginning June 6, 1934, subject to the approval of the Department.

Students having deficiencies in technical or clinical courses must register for those courses by June 6, 1934. Fees will be charged on the basis of \$10 per credit.

COURSES IN ORAL HYGIENE

The courses in oral hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The Faculty is always willing at the request of practitioners to conduct through the Extension Division short courses in any subjects in dentistry that may be desired, providing it can be done without interference with the regular routine work of the School. It is the business of the Extension Division to arrange such courses to suit the convenience in time and place of those who take and those who give the courses. The fees for such special short courses are on the basis of cost.

It is usually possible in each division of the School to accommodate two or three dentists who desire to come into the School for study and clinical practice under the regular teaching staff. The candidate for such work must be an ethical dentist recommended by his local dental society. In most cases it is required that the applicant register for a period of time equal to one semester, full or half time, but in a few divisions shorter courses may be arranged. If he desires to register for work he applies to the Dean who, in conference with the teachers concerned, passes on the application. If acceptable the candidate registers and pays a tuition fee which is proportional to the regular undergraduate year fee as the amount of work registered for is to an undergraduate year of work. The minimum registration is for the equivalent of five trimester credits. Such work does not lead to credit or toward a degree or certificate.

For full information address the Dean's office, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a Certificate of Proficiency in Dentistry or in a special branch of dentistry selected by the can-

didate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below.

The requirements for admission shall be graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country and the applicant must be a member in good standing of his national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the Certificate of Proficiency shall include not less than thirty-two points (forty-eight trimester credits) of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery.

The fee for the year's work leading to the Certificate of Proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTIA FOR GRADUATES

An organized twelve-month course has been given since 1927 to qualified graduates in dentistry who wish to prepare for specialization in orthodontia. Admission requirements include graduation from an acceptable school of dentistry, and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The Certificate of Proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Director of the Division of Orthodontia or the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as qualification for admission. For information regarding the curricula leading to the Master of Arts or the Doctor of Philosophy degrees under these Faculties see the Graduate Announcement.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar, and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar found at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$6.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed by statute:

(a) University Fee

For all students (except those in University Extension and Summer Session), for each Winter or Spring Session or for any part thereof	\$10.00
For students in University Extension exclusively, for a Winter or Spring Session or any part thereof, and for students in a Summer Session or any part thereof	\$7.00

(b) Tuition Fee

For all students, per point (which is one hour a week of attendance for a Winter or Spring Session, or the equivalent thereof), except in cases where a special fee is fixed	\$10.00
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With the proviso that the minimum fee for a Winter or Spring Session in the case of a student enrolled for ten points or more in the School of Law shall be not less than \$190, and the minimum fee for a student enrolled in the School of Law for less than ten points during any Winter, Spring, or Summer Session shall be not less than \$15 per point, and in the case of a student enrolled for the full course in the School of Medicine or in the School of Dental and Oral Surgery not less than \$250, and in the case of a student enrolled for the full course in Oral Hygiene or in the School of Journalism not less than \$150.

(c) Fee for Application

For any degree	\$20.00
For any certificate	\$10.00

(d) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations \$6.00
2. Late application for entrance examinations \$1.00
3. Deficiency and special examinations \$3.00
4. Renewal of application for any degree or certificate \$1.00

The conditions under which such privileges shall be granted are to be determined by the Registrar with the approval of the President.

(e) Entrance Examinations—for each series \$10.00

(f) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course

which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

(g) Student Activities Fee

For all male students matriculated in any School of the University in which the first degree is normally granted four years after admission to college, for each Winter or Spring Session, or any part thereof \$12.50

Three-fifths of the amount received in each session on account of this fee to be expended on the maintenance of athletic activities, and two-fifths to be expended on the maintenance of non-athletic activities of students in Columbia college, provided that all such expenditures shall be subject to the authority of the President.

(h) Medical School Athletic and Recreational Fee

For all male students, per annum \$10.00

Male students in the graduate and professional schools will be entitled to certain privileges on payment of the student activities fee of \$12.50, for each Winter or Spring Session or any part thereof.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a deficiency or a special examination, or for a degree, without the payment of an additional fee, see the Academic Calendar. An examination to remove a deficiency in a course, or an examination at an unusual time, involves the payment of a fee.

A deposit for the use of lockers, keys, apparatus, material and the like is required of students in certain schools and courses. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals, beyond this allowance; and service in washing apparatus, or work by a mechanic. A deposit of \$25 will be required in the School of Dental and Oral Surgery each year to cover material and breakage in the laboratories; for each Summer Session, \$10.

Instruments. Each student is required to supply himself with a microscope of a satisfactory type and instruments as specified in the official instrument list. The purchase from the University of microscopes and instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. Dental engines are rented from the School at the rate of \$15 for the academic year, payable in advance on registration in September. Instrument cases are also rented from the School, the fee of \$10 for two cases being deducted from the breakage fee at the end of the year.

Supplies. All technic material and regular supplies *must* be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the students' best interests.

Lockers. Each student on entering will be required to supply himself with one combination lock as prescribed by the School. Locks are one dollar each.

ESTIMATED EXPENSES FOR ACADEMIC YEAR

Following is an itemized estimate of the average expenses of a full-time student in the School of Dental and Oral Surgery for the academic year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are of course variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year, and can be accepted as applicable for the year 1934-1935 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$545	\$545
Room	180	144
Board	252	200
Books	30	20
Instruments (see below)	120	100
Laundry	40	28
	<hr/> \$1,167	<hr/> \$1,037

The total cost of instruments for the four-year course is from \$400 to \$480, an average yearly cost of \$100 to \$120. It should be noted that the instruments for the first two years cost about \$300.

Medical advice and treatment of minor ailments are rendered free of charge by the University Medical Officer.

Many students reduce their expenses by sending their laundry home weekly via parcel post.

EXAMINATIONS AND STANDING

Final examinations are held at the end of the course, and reexaminations for students with conditions are held within one month after the close of the regular academic year.

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, reexamination required; Inc., incomplete, completed work must be submitted within the time limit set by the instructor. One reexamination will be allowed in a course graded F; if the examination is passed the grade will be C.

No student will be recommended for the degree of Doctor of Dental Surgery until he has completed all the required practical work and passed satisfactory examinations in all the subjects of the entire course.

CONDITIONS FOR ADVANCEMENT

Advancement will be granted to such students as have received passing grades in all subjects.

A student who has failed in any one of his courses is not allowed to go on with his class until he has removed that failure to the satisfaction of the head of the department.

A student who has failed two courses in the first year may be allowed reëxamination in the failed courses provided that the failures do not comprise any two out of the three following courses: gross anatomy, physiology, and biological chemistry.

A student who has failed in two courses of the second, third, or fourth years may be allowed reëxamination in the two failed courses provided the failed subjects do not include operative dentistry, prosthetic dentistry, or crown and bridge work, and that the total hours of the two courses failed do not exceed one third of the total course hours for that year.

Students who receive conditions or failures amounting to one-third or more of the year's work must repeat the work of the entire year if allowed to reregister.

A student may repeat an entire year only once during his dental course and may not repeat any other year later, unless the Faculty of the School votes to suspend this rule on recommendation of the class Faculty under which the student has been working.

The class Faculties have general supervision of students' work and the application of these regulations to individual cases.

The Faculty reserves the right to refuse readmission to any student who, upon recommendation of his class Faculty, is believed to be unsuited to the conditions of study and advancement in the School.

The Faculty reserves the right to amend the schedule of studies from time to time at its discretion, without further notice.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character, and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York.

All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are (1) anatomy, (2) chemistry and metallurgy, (3)

operative dentistry and radiography, (4) therapeutics and materia medica, (5) physiology and hygiene, (6) oral surgery, pathology and bacteriology, (7) prosthetic dentistry, (8) histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 per cent.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

In view of the prevailing economic depression recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize to be known as the Ella Maria Ewell Medal will be awarded annually to that student of the School of Dental and Oral Surgery who may, in the judgment of the Faculty, be most proficient in some subject of dentistry. The branch of dentistry for which the award is made will be determined by the executors of the will of Glover C. Beckwith-Ewell.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Officers

President, RAYMOND M. BRISTOL, D.D.S.

Vice-President, BENJAMIN B. KAMRIN, B.S., D.D.S.

Secretary, MERVIN AARONSON, D.D.S.

Treasurer, FREDERICK BIRNBERG, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to Board of Governors of Columbia Alumni Federation, Drs. JOSEPH SCHROFF, JOSEPH R. HORN, and RAYMOND M. BRISTOL.

Membership. Any graduate, former student, member of the Faculty, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

COURSE OF STUDIES

For purposes of instruction the work of each year is scheduled in three trimesters of ten weeks each from September to May. These are designated as First, Second, and Third, and in 1934-1935 begin on September 27, December 8, and March 4, respectively. Registration and collection of fees for the regular academic year are administered in accordance with the University Academic Calendar in September and February.

Courses numbered from 101 to 200 are open to candidates for the degree of Doctor of Dental Surgery in their first and second years. Courses numbered from 201 upward are open to candidates for the degree of Doctor of Dental Surgery in their third and fourth years, and to graduates in dentistry.

Following the completion of a certain proportion of the work of the fourth year, qualified students may choose electives which will continue, supplement, or vary the work done in the prescribed courses upon nomination by the head of the department and with permission of the class Faculty. The student may select the elective he wishes to take and register the choice with the chairman of the Curriculum Committee, who will arrange for the time and place of meeting. As in all other courses, students will be held responsible for attendance and the successful passing of examinations.

SUMMARY OF STUDIES

The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

The following outline, drawn up from the point of view of the student and covering the four years' study, shows the work required of a candidate for the degree of Doctor of Dental Surgery. The unit of credit used is the trimester credit which signifies approximately three academic hours of work a week for one trimester of ten weeks. For classroom work this means one hour in class a week, each requiring an average of two hours of home work. For laboratory or clinical work requiring no outside study it represents three hours of work a week in the School. For a detailed statement of the content of each course, and other questions of detail, the student is referred to the departmental statements which follow.

The schedules of required work hours are subject to change at the pleasure of the Faculty.

CURRICULUM

<i>Subject</i>	<i>Lecture Hours</i>	<i>Laboratory or Clinic Sessions</i>	<i>Credits</i>	<i>Academic Hours</i>
FRESHMAN YEAR:				
Anatomy, Gross	5	10	15	300
Anatomy, Microscopic	4	4	8	160
Anatomy, Neuro	2	2	4	80
Anatomy, Oral	1	5	6	170
Biochemistry	4	4	8	160
Histology, Oral		2	2	60
Physiology	6	4	10	180
Prosthetics	1	1	1	40
			54	1150
SOPHOMORE YEAR:				
Bacteriology	4	3	7	130
Crown and Bridge		3	3	90
Dental Materials		2	2	60
Hygiene, Oral	2		2	20
Operative Dentistry	1	8	9	250
Pathology	4	5	9	178
Pharmacology	4	2	6	100
Prophylaxis, Oral		1	1	30
Prosthetic Dentistry	2	8	8	260
Psychopathology	1		1	10
Radiology	1		1	10
Surgery, Oral	2		2	20
			51	1158
JUNIOR YEAR:				
Crown and Bridge	2	7	9	230
Dental Ethics	1		1	10
Diagnosis, Oral	3	1	4	60
Hygiene, Oral	1		1	10
Operative Dentistry	2	10	12	320
Orthodontia	3	2	4	110
Pathology, Oral	3	2	5	90
Periodontia		1	1	30
Pharmacology, Applied	1		1	10
Prosthetic Dentistry	1	6	7	190
Radiology		1	1	30
Round Wire Technic		1	1	30
Surgery, Oral	3	1	2½	50
			49½	1170
SENIOR YEAR:				
Crown and Bridge		6	6	180
Dental Economics	1		1	10
Dental History and Jurisprudence	1		1	10
Dentistry for Children	1	3	4	100
Diagnosis, Oral		1	1	30
Operative Dentistry	1	11	12	340
Periodontia	1	1	2	50
Practice of Medicine	6	1	7	90
Prophylaxis, Clinical		1	1	30
Prosthetic Dentistry	2	6	8	200
Public Health	3		3	30
Surgery, Oral	3	1	2½	90
Electives	1	2	3	70
			51½	1230

DEPARTMENTAL STATEMENTS

ANATOMY

Anatomy 150F—Microscopic anatomy. 16 hours a week for one trimester. First year. 8 trimester credits. Professors P. E. SMITH, DETWILER, COPENHAVER, SEVERINGHAUS, ZWEMER, Dr. CARPENTER, and assistants.

Lectures, conferences, and laboratory.

This course is the same as the Medical School course *Anatomy 101F*.

Anatomy 151FS—Gross anatomy. A total of 300 hours in two trimesters. First year. 15 trimester credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

BACTERIOLOGY

Bacteriology 151F—General medical bacteriology and immunology. 9 hours a week for one trimester. Second year. 3 trimester credits. Dr. ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152F—Principles of epidemiology, infection, immunity, serum diagnosis, and therapy. 4 hours a week for one trimester. Second year. 4 trimester credits. Professor GAY.

Lectures given to the dental and medical students together.

BIOLOGICAL CHEMISTRY

Biochemistry 150ST—Introductory biological chemistry. 2 hours lecture and 6 hours laboratory a week in the second and third trimesters. 8 trimester credits. Professor KARSHAN and assistants.

DENTISTRY

Dentistry 101—Oral anatomy. A total of 170 hours. First year. 6 trimester credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the anatomy and development of the individual teeth and the dentures as a whole.

Dentistry 202—Dentistry for children. 1 hour a week for one trimester. Fourth year. 1 trimester credit. Professor McBEATH and assistants.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child patient and the application of present knowledge of preventive dentistry to the patient.

Dentistry 203—Dentistry for children clinic. 3 hours a week for three trimesters. Fourth year. 3 trimester credits. Professor McBEATH and assistants.

Dentistry 204—Dentistry for children elective.

See Electives, page 34.

Dentistry 105-205—Crown and bridge technic. A total of approximately 210 hours. 105—second year, 3 trimester credits; 205—third year, 4 trimester credits. Professors CRAWFORD and HOYT and assistants.

Laboratory work and lectures on the technical procedures in crown and bridge work.

Dentistry 206—Crown and bridge. 1 hour a week for one trimester. Third year. 1 trimester credit. Professor HOYT.

Lectures on the technical procedures of crown and bridge work.

Dentistry 207—Crown and bridge. 1 hour a week for one trimester. Third year. 1 trimester credit. Professor HOYT.

Conference course with outside reading on problems in crown and bridge work.

Dentistry 208a-208b—Crown and bridge clinic. A total of 270 hours. 208a—third year, 3 trimester credits; 208b—fourth year, 6 trimester credits. Professors ROWE, HOYT, CRAWFORD, and assistants.

Infirmary practice and demonstrations in crown and bridge construction.

Dentistry 209a-209b—Crown and bridge electives.

See Electives, pages 34 and 35.

Dentistry 212—Oral diagnosis. 1 hour a week for three trimesters. Third year. 3 trimester credits. Professors LEONARD and ZISKIN.

Lecture and conference course in oral examination and charting, history taking, methods of testing, dental X-ray interpretation, oro-dental symptomatology, and indications for various types of treatment.

Dentistry 213a-213b—Oral diagnosis. A total of 60 hours. Third and fourth years. 2 trimester credits. Professors LEONARD and ZISKIN and clinical staff.

213a. Clinical practice and demonstrations in oral examination and charting, history taking, dental X-ray interpretation, oral diagnosis and treatment planning.

213b. The diagnosis of the fundamental causes of dental diseases and their prevention.

Dentistry 214—Oral diagnosis elective.

See Electives, page 35.

Dentistry 115—Oral histology and embryology. 3 hours a week for two trimesters. First year. 2 trimester credits. Professor BODECKER and Dr. APPLEBAUM.

Lectures and laboratory work on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Dentistry 216—Oral histology and embryology elective.

See Electives, page 35.

Dentistry 121—Oral hygiene and prophylaxis. 3 hours a week for one trimester. Second year. 1 trimester credit. Professor HUGHES, Miss HOLLIS, and assistants.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

Dentistry 221—Oral hygiene and prophylaxis. 3 hours a week for one trimester. Fourth year. 1 trimester credit. Professors LEONARD and HOLLIDAY.

Clinical dental prophylaxis.

Dentistry 122—Oral hygiene. 2 hours a week for one trimester. Second year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on the application of bacteriology, physiology, and biochemistry to preventive dentistry.

Dentistry 222—Oral hygiene. 1 hour a week for one trimester. Third year. 1 trimester credit. Professor LEONARD.

Community dentistry.

Dentistry 224a-224b—Oral hygiene elective.

See Electives, pages 34 and 35.

Dentistry 126—Physical properties of dental materials. 3 hours a week for two trimesters. Second year. 2 trimester credits. Professor CRAWFORD.

Metallurgical processes and apparatus. Physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory work.

Dentistry 227—Physical properties of dental materials elective.

See Electives, page 35.

Dentistry 131—Operative dentistry technic. A total of 240 hours in three trimesters. Second year. 8 trimester credits. Professors HARTMAN, BUCHBINDER, Drs. LINDIG, HUNT, and assistants.

Lectures and laboratory work on operative instruments and materials, their care and uses, root canal technic and the technic of cavity preparations and fillings.

Dentistry 132—Operative dentistry. 1 hour a week for one trimester. Second year. Professor HARTMAN and assistants.

Lectures on laboratory procedure in operative dentistry.

Dentistry 233—Operative dentistry. 1 hour a week for two trimesters. Third year. 2 trimester credits. Professors HARTMAN and BUCHBINDER.

Lectures and conferences on operative dentistry procedures.

Dentistry 234a-234b—Operative dentistry clinic. A total of 630 hours. 234a—third year, 10 trimester credits; 234b—fourth year, 11 trimester credits. Professors HARTMAN, BUCHBINDER, Drs. LINDIG, HUNT, and assistants.

Clinical practice and demonstrations in operative dentistry.

Dentistry 235—Operative dentistry. 1 hour a week for one trimester. Fourth year. 1 trimester credit. Professor HARTMAN.

Conference course on problems in operative dentistry.

Dentistry 239a-239b—Operative dentistry electives.

See Electives, pages 34 and 35.

Dentistry 241—Orthodontia. 60 hours of laboratory work. Third year. 1 trimester credit. Professor WAUGH, Drs. BARBER and MURPHY.

Laboratory instruction in free-hand soldering, the fundamental technic of making appliances and space retainers.

Dentistry 242—Orthodontia. 2 hours of lecture per week for one trimester and a total of 30 hours of demonstrations in the clinic. Third year. 2 trimester credits. Professor WAUGH and staff.

Orthodontic fundamentals with special emphasis on preventive malocclusion by early recognition and correction of the predisposing factors.

Dentistry 243a-243b—Orthodontia electives.

See Electives, page 35.

Dentistry 246—Oral pathology. 1 hour a week lecture for three trimesters. 3 hours a week laboratory for two trimesters. Third year. 5 trimester credits. Professor CAHN and assistant.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Dentistry 247a-247b—Oral pathology electives.

See Electives, page 35.

Dentistry 251a-251b—Periodontia clinic. 60 hours. 251a—third year; 251b—fourth year. 2 trimester credits. Professors W. B. DUNNING, LEONARD, HIRSCHFELD, and HOLLIDAY.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Dentistry 252—Periodontia. 1 hour a week for one trimester. Fourth year. 1 trimester credit. Professors LEONARD and HIRSCHFELD.

Lectures and conferences on the theory and practice of periodontia.

Dentistry 253a-253b-253c—Periodontia electives.

See Electives, pages 34 and 35.

Dentistry 155a-155b—Prosthetic dentistry technic. A total of approximately 300 hours. 155a—first year, 1 trimester credit; 155b—second year, 8 trimester credits. Professor YOUNG and assistants.

Lectures and laboratory on the mechanics of denture construction.

Dentistry 256—Prosthetic dentistry. 1 hour a week for one trimester. Third year. 1 trimester credit. Professor ROWE.

Lectures and conferences on materials and principles of denture construction.

Dentistry 257a-257b—Prosthetic dentistry clinic. A total of 330 hours. 257a—third year, 6 trimester credits; 257b—fourth year, 5 trimester credits. Professors ROWE, CRAWFORD, HOYT, YOUNG, Dr. G. P. SMITH, and assistants.

Infirmary practice and demonstrations in denture construction.

Dentistry 258—Prosthetic dentistry. 3 hours a week for one trimester. Third year. 1 trimester credit. Professor GILLET.

Lectures and laboratory work in the construction of round wire clasps and lugs for partial dentures.

Dentistry 259—Prosthetic dentistry. 1 hour a week for one trimester. Fourth year. 1 trimester credit. Professor ROWE.

Lectures and conferences on correlation of prosthetic dentistry with other branches of dental health service.

Dentistry 260—Prosthetic dentistry. 1 hour a week for one trimester. Fourth year. 1 trimester credit. Professor ROWE.

Conference course on fundamental problems in prosthetic dentistry.

Dentistry 261—Prosthetic dentistry elective.

See Electives, page 34.

Dentistry 165—Oral radiology. 1 hour a week for one trimester. Second year. 1 trimester credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Dentistry 266—Oral radiology elective.

See Electives, page 35.

Dentistry 267—Oral radiology practice. 30 hours. Third year. 1 trimester credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

Dentistry 168—Principles of surgery. 1 hour a week for two trimesters. Second year. 2 trimester credits. Professor PARKER.

Lectures and conferences on general surgical diseases and the principles of their treatment.

Dentistry 270—Oral surgery. 1 hour a week lecture for one trimester. Third year. 1 trimester credit. Professors PARKER and McCaffrey.

Lectures and conferences on local and general anesthesia and exodontia.

Dentistry 271a-271b—Oral surgery clinic. A total of 60 hours. 271a—third year, 1 trimester credit; 271b—fourth year, 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCaffrey, BIRENBACH, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia. Time is also assigned to observation of oral surgical operations and to an organized oral pathology clinic.

Dentistry 272a-272b—Oral surgery. 1 hour a week for four trimesters. 272a—third year, 1/2 trimester credit; 272b—fourth year, 1 1/2 trimester credits. Professors H. S. DUNNING and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Dentistry 273—Oral surgery. A total of 30 hours. Fourth year. No credit. Professors H. S. DUNNING, BERGER, PARKER, and McCaffrey.

Demonstration of oral and maxillo-facial lessons.

Dentistry 274—Oral surgery elective.

See Electives, page 35.

Dental Medicine 278—General survey of medicine. 2 hours per week for three trimesters. Fourth year. 6 trimester credits. Professor McBEATH and associates.

Lectures, conferences and clinics covering the field of general medicine.

Dental Medicine 279—Medico-dental clinic. A total of 30 hours of clinic in three trimesters. Fourth year. 1 trimester credit. Professor McBEATH and associates.

Clinics in small groups in which the dental patients are studied for systemic relationships.

Dentistry 281—Dental ethics. 1 hour a week for one trimester. Third year. 1 trimester credit. Professor W. B. DUNNING.

A lecture and conference course with collateral reading on ethics and dental ethics.

Dentistry 282—Dental jurisprudence and history. 1 hour a week for one trimester. Fourth year. 1 trimester credit. Professor GILLET.

A lecture and conference course with collateral reading.

Dentistry 283—Dental economics. 1 hour a week for one trimester. Fourth year. 1 trimester credit. Dr. SMITH.

A lecture and conference course in dental economics and office management.

NEUROLOGY

Neurology 150—Neuro-anatomy. 2 hours of lecture and 6 hours of laboratory a week for one trimester. First year. 4 trimester credits. Professors ELWYN, STRONG, Drs. SALZER, LYONS, and BRICKNER.

Lectures and demonstrations on the gross anatomy, structure and functions of the central nervous system. This course is equivalent to the Medical School course *Neurology 101*.

PATHOLOGY

Pathology 150FS—General and special pathology. 14 hours lecture and laboratory a week for one trimester and 19 hours a week for two weeks of the second. Second year. 9 trimester credits. Professors JOBLING and RICHTER and assistants.

Lectures and laboratory.

This course includes the first part (general pathology) of the Medical School course *Pathology 101*, but does not include the details of special pathology.

PHARMACOLOGY

Pharmacology 150—General pharmacology. One lecture, one conference, and one three-hour laboratory period for two trimesters. Second year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, BLACKBERG, and HUMBERT.

Lectures and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. 1 hour a week for one trimester. Third year. 1 trimester credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSIOLOGY

Physiology 150—Mammalian physiology. 9 hours a week for two trimesters. First year. 10 trimester credits. Professor WILLIAMS and assistants.

Lectures, conferences and laboratory. This course is equivalent to the Medical School course *Physiology 101*, the two classes being taught together for lectures.

PSYCHIATRY

Psychiatry 150T—Psychopathology. 1 hour a week for one trimester. Second year. 1 trimester credit or 1 point. Professor LAMBERT.

Lectures on the structural basis of the mind; the instincts and emotions; development of the personality; social adjustment, failures in adjustment, compensatory reactions; types of abnormal behavior, emotional, neurotic and personality factors in physical illness; functional disorders with special reference to dental practice. General principles of mental hygiene.

This course is the same as the Medical School course *Psychiatry 101*.

PUBLIC HEALTH

Public Health 250—Preventive medicine and public health practice. 1 hour a week for three trimesters. Fourth year. 3 trimester credits. Professor EMERSON and assistants.

This course is the same as the Medical School course, preventive medicine and *Public Health Administration 201EST*, the two classes being taught together.

ELECTIVES

After completing a certain proportion of the work of the fourth year, qualified students may choose elective work, with the consent of the head of the department and the class Faculty.

Electives are of five general types:

1. Reading and conference courses, usually leading to the preparation of a paper on some phase of a subject.
2. Clinic courses consisting of further practice in the regular subjects or some phase of special practice.
3. Technic courses consisting of training and practice in special methods in technical dentistry.
4. Scientific laboratory courses consisting of advanced work in the scientific subjects of the dental curriculum.
5. Special researches.

The elective time may also be devoted and assigned to some one of the regular subjects, such as oral hygiene or public health, where a bit of original investigation is required to which the student would like to devote more time than the regular course provides.

It is not possible to offer all of the courses which may be listed, due to overcrowded infirmary or other reasons. In general, students are expected to have completed their requirements in a subject before electing advanced work in it. Otherwise it is desired to allow the greatest freedom in elective work consistent with the regular work of the School, in order that students may start following the lines of their special interests.

Each student eligible for elective work will confer with the chairman of the Curriculum Committee, who will arrange for time and place of meeting. Students will be held for the successful completion of elective courses, including attendance and examination.

READING AND CONFERENCE COURSES

Dentistry 204—Dentistry for children. Professor McBEATH.

Dentistry 209a—Crown and bridge work. Professor HOYT.

Dentistry 224a—Oral hygiene. Professor LEONARD.

Dentistry 239a—Operative dentistry. Professor HARTMAN.

Dentistry 253a—Periodontia. Professor LEONARD.

Dentistry 261—Prosthetic dentistry. Professor ROWE.

CLINIC COURSES

- Dentistry 214*—Oral diagnosis. Professor ZISKIN.
Dentistry 243a—Orthodontia. Professor WAUGH.
Dentistry 253b—Periodontia. Professor HIRSCHFELD.
Dentistry 274—Oral surgery. Professor H. S. DUNNING and staff.

TECHNIC COURSES

- Dentistry 209b*—Crown and bridge technic—porcelain jacket crown. Professor ROWE.
Dentistry 239b—Operative technic—porcelain inlay. Dr. HUNT.
Dentistry 266—Radiography. Professor HOLLIDAY.

LABORATORY COURSES

- Dentistry 216*—Oral histology. Professor BODECKER.
Dentistry 247a—Oral pathology. Professor CAHN.
Dentistry 247b—Clinical pathology. Dr. BARTELS.

RESEARCH COURSES

- Dentistry 224b*—Oral hygiene. Professor LEONARD.
Dentistry 227—Physical properties of dental materials. Professor CRAWFORD.
Dentistry 243b—Orthodontia. Professor WAUGH.
Dentistry 253c—Periodontia. Professors LEONARD and HIRSCHFELD.

Special research problems in fundamental science and other dental science may be arranged with the teachers concerned.

REQUIRED TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY, GROSS. Cunningham, *Manual of Practical Anatomy*. Choice of: Cunningham, *Textbook of Anatomy*; Gray, *Anatomy*; Piersol, *Human Anatomy*.

ANATOMY, MICROSCOPIC. Choice of: Bailey, Strong, and Elwyn, *Textbook of Histology*; Bremer, *Textbook of Histology*; Jordan, *A Textbook of Histology*; Maxinow, *Textbook of Histology*.

BACTERIOLOGY. Choice of: Park and Williams, *Pathogenic Micro-organisms*, \$6.50; Zinsser, *Text-book of Bacteriology*, \$7.50. For reference: Appleton, *Bacterial Infection*; Topley and Wilson, *Principles of Bacteriology and Immunology*, Vols. I and II.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$6.50.

DENTISTRY

Anatomy, oral. Diamond, *Dental Anatomy*, \$5.00.

Crown and bridge. Mimeographed notes furnished by the Department.

Dental jurisprudence. Brothers, *Dental Jurisprudence*, C. V. Mosby Co.

Histology, oral. Bodecker, *Fundamentals of Dental Histology and Embryology*, \$4.50.

Hygiene, oral. Fones, *Mouth Hygiene*, \$5.00, or Fones, *Preventive Dentistry*, \$2.50. Mimeographed notes are also furnished by the Department.

Operative dentistry. Black, *Operative Dentistry*, Vols. 1 and 2, \$12.00. Mimeographed notes are also furnished by the Department.

Physical properties of dental materials. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

Practice of Medicine. Suggested but not required: Cecil, *Textbook of Medicine*.

Prosthetic dentistry. Recommended but not required: E. Kennedy, *Partial Denture Construction*; Nichols, *Prosthetic Dentistry*; Turner, *American Textbook of Prosthetic Dentistry*; Wilson, *Dental Prosthetics*.

Radiography. Recommended but not required: Ennis, *Dental Roentgenology*, \$5.00, Lea and Febiger.

Surgery, oral. Berger, *Principles and Technique of Oral Surgery*, \$7.00; Blair and Ivy, *Essentials of Oral Surgery*; De Costa, *General Surgery*; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Scudder, *Tumors of the Jaws*, \$10.00.

NEURO-ANATOMY. Choice of: Bailey, *Histology*, 6th or 7th edition; Ranson, *Anatomy of the Nervous System*; Strong, *Neuro-Anatomy*, \$1.50.

PATHOLOGY. Delafield and Prudden, *Pathology*; McCallum, *Pathology*.

PHARMACOLOGY. *Useful Drugs*, \$0.60. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*; Cushny, *Pharmacology and*

Therapeutics, \$6.00; Dixon, *Manual of Pharmacology*, \$7.00; Sollmann, *Manual of Pharmacology*, \$7.50.

PHYSIOLOGY. Starling, *Human Physiology*.

PSYCHIATRY. White, *Introduction to the Study of the Mind*, \$2.00.

PUBLIC HEALTH. Not required, but recommended for supplementary reading:

Moore, *Public Health in the United States*; Park, *Public Health and Hygiene*; Price, *Public Health and Hygiene*; Rosenau, *Preventive Medicine*.

DICTIONARY. Choice of: Dorland, *Illustrated Medical Dictionary*, \$8.00; Gould, *The Student's Medical Dictionary*, \$2.00; Stedman, *Medical Dictionary*, \$7.00.

ACADEMIC CALENDAR

The Medical and Dental Schools have a slightly different schedule of holidays, etc. Please see special calendar.

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- July 5 Thursday. Registration in Summer Session begins.
- July 7 Saturday. Last day of registration for students desiring full credit.
- July 9 Monday. Thirty-fifth Summer Session begins. The privilege of registration on or after this date may be granted on payment of a fee of \$6.00.
- July 10 Tuesday. Last day for making changes in program for the Summer Session.
- August 1 Wednesday. Last day for filing applications or renewals of applications for the degrees of Master of Science and Master of Laws to be conferred in October and for the degree of Master of Arts to be conferred in December. The privilege of later application may be granted on payment of a fee of \$6.00.
- Last day for filing applications for deficiency and special examinations. The privilege of later application may be granted on payment of a fee of \$6.00.
- August 17 Friday. Thirty-fifth Summer Session ends.
- September 10 Monday. Last day for filing applications for college entrance examinations. The privilege of later applications may be granted on payment of the regular fee plus a late fee of \$1.00.
- September 17 Monday. Examinations for entrance and for deficient and debarred students begin.
- September 19 Wednesday. Placement examinations required of new students admitted to Columbia College.
- September 20 Thursday. Placement examinations required of new students admitted to Columbia College.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

The privilege of registration after the periods specified may be granted on payment of a late registration fee of \$6.00 except in University Extension where students may register later without credit and without payment of that fee.

- September 19 Wednesday, to September 29, Saturday. For University Extension students desiring credit.
 - September 21 Friday, to September 26, Wednesday. For students in Barnard College and in the School of Law.
 - September 22 Saturday, to September 26, Wednesday. For students in the Schools of Education and Practical Arts.
 - September 24 Monday, to September 26, Wednesday. For students in Columbia College, Seth Low Junior College, the Schools of Architecture, Business (undergraduate), Dental and Oral Surgery, Engineering, Journalism, Library Service, Medicine, Optometry, and for University Undergraduates.
 - September 24 Monday, to September 29, Saturday. For graduate students in Political Science, Philosophy, Pure Science, Business, and Public Health.
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- September 26 Wednesday. Winter Session. 181st year begins.
 - September 27 Thursday. Classes begin.
 - September 29 Saturday. Last day for registration in the Schools of Education and Practical Arts for students desiring full credit.

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- October 1 Monday. Last day for filing applications or renewals of applications for all degrees and certificates to be conferred in October, except Master of Arts, Master of Science, Master of Laws, Doctor of Philosophy, and Doctor of Law. The privilege of later application may be granted on payment of a fee of \$6.00.
- October 6 Saturday. Last day for filing essays for the degree of Master of Science to be conferred in October.
- October 13 Saturday. Last day for making changes in program, except for students in the Faculties of Political Science, Philosophy, and Pure Science.
- October 16 Tuesday. Last day for making changes in program for students in the Faculties of Political Science, Philosophy, and Pure Science.
- October 16 Tuesday. Stated meeting of University Council.
- November 6 Tuesday. Election Day, holiday.
- November 15 Thursday. Last day for filing essays for the degree of Master of Arts to be conferred in December.
- Mid-term date, Winter Session.
- November 27 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- November 29 Thursday, to December 1, Saturday, inclusive. Thanksgiving holidays.
- December 1 Saturday. Last day for filing applications or renewals of applications for the degrees of Master of Arts, Master of Science, and Master of Laws to be conferred in February.
- December 15 Saturday. Last day for filing applications for deficiency or make-up examinations in the School of Law to be taken at mid-year. The privilege of later application may be granted on payment of a fee of \$6.00.
- December 18 Tuesday. Stated meeting of University Council.
- December 24 Monday, to

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- January 6 Sunday, inclusive. Christmas holidays.
- January 13 Sunday. Annual Commemoration Service in St. Paul's Chapel.
- January 23 Wednesday. Mid-year examinations begin.
- February 1 Friday. Last day for filing applications or renewals of applications for all degrees and certificates to be conferred in February, except Master of Arts, Master of Science, Master of Laws, Doctor of Philosophy, and Doctor of Law. The privilege of later application may be granted on payment of a fee of \$6.00.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SPRING SESSION

The privilege of registration after the periods specified may be granted on payment of a late registration fee of \$6.00 except in University Extension where students may register later without credit and without payment of that fee.

- January 22 Tuesday, to January 28, Monday. For students in the School of Medicine.
- January 31 Thursday, to February 9, Saturday. For University Extension students desiring credit.
- February 2 Saturday, to February 5, Tuesday. For all other students.
- February 5 Tuesday. Winter Session ends.
- Last day for filing essays for the degrees of Master of Arts, Master of Science, and Master of Laws to be conferred in February.

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- February 6 Wednesday. Spring Session begins. Classes begin.
- February 9 Saturday. Last day for registration in the Schools of Education and Practical Arts for students desiring full credit.
- February 12 Tuesday. Alumni Day. Not a University holiday.
- February 16 Saturday. Last day for making changes in program, except for students in the Faculties of Political Science, Philosophy, and Pure Science.
- February 19 Tuesday. Stated meeting of University Council.
- February 22 Friday. Washington's Birthday, holiday.
- February 23 Saturday. Last day for making changes in program for students in the Faculties of Political Science, Philosophy, and Pure Science.
- March 1 Friday. Last day for filing applications for University Fellowships and University Scholarships.
Last day for filing applications or renewals of applications for the degrees of Master of Arts, Master of Science, and Master of Laws to be conferred in June. The privilege of later application may be granted on payment of a fee of \$6.00.
- March 11 Monday. Last day for filing applications for deficiency and special examinations except in the School of Law. The privilege of later application may be granted on payment of a fee of \$6.00.
- March 26 Tuesday. Mid-term date, Spring Session.
- April 1 Monday. Last day for filing applications for examination for the degrees of Doctor of Philosophy and Doctor of Law to be conferred in June. Last day for filing Cutting Fellowship applications.
- April 15 Monday. Last day for filing applications or renewals of applications for all degrees and certificates to be conferred in June, except Master of Arts, Master of Science, Master of Laws, Doctor of Philosophy, and Doctor of Law. The privilege of later application may be granted on payment of a fee of \$6.00.
Last day for filing applications for deficiency or make-up examinations in the School of Law to be taken in May. The privilege of later application may be granted on payment of a fee of \$6.00.
- April 16 Tuesday. Stated meeting of University Council.
- April 18 Thursday, to April 22, Monday, inclusive. Easter holidays.
- May 1 Wednesday. Last day for students in Columbia College and Seth Low Junior College to file choice of studies for following year. The privilege of filing such choice later may be granted on payment of a fee of \$6.00. Last day for filing applications for scholarships in the Schools of Law, Engineering, Architecture, and Columbia College.
- May 20 Monday. Final examinations for all courses begin.
- May 21 Tuesday. Last day for filing essays for the degrees of Master of Arts and Master of Science to be conferred in June.
- May 30 Thursday. Memorial Day, holiday.

COMMENCEMENT, JUNE 2 TO 5

- June 2 Sunday. Baccalaureate Service.
- June 3 Monday. Class Day.
- June 4 Tuesday. Conferring of degrees.
- June 12 Wednesday. Spring Session ends.
- June 17 Monday. Entrance examinations begin.
- July 3 Wednesday. Registration in Summer Session begins.

- 1935
 July 6 Saturday. Last day of registration for students desiring full credit.
 July 8 Monday. Thirty-sixth Summer Session begins. The privilege of registration on or after this date may be granted on payment of a fee of \$6.00.
 July 9 Tuesday. Last day for making changes in program for the Summer Session.
 August 1 Thursday. Last day for filing applications or renewals of applications for the degrees of Master of Science and Master of Laws to be conferred in October and for the degree of Master of Arts to be conferred in December. The privilege of later application may be granted on payment of a fee of \$6.00.
 Last day for filing applications for deficiency and special examinations. The privilege of later application may be granted on payment of a fee of \$6.00.
 August 16 Friday. Thirty-sixth Summer Session ends.
 September 9 Monday. Last day for filing applications for college entrance examinations. The privilege of later application may be granted on payment of the regular fee plus a late fee of \$1.00.
 September 16 Monday. Examinations for entrance and for deficient and debarred students begin.
 September 18 Wednesday. Placement examinations required of new students admitted to Columbia College.
 September 19 Thursday. Placement examinations required of new students admitted to Columbia College.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)
 FOR THE WINTER SESSION

The privilege of registration after the periods specified may be granted on payment of a late registration fee of \$6.00 except in University Extension where students may register later without credit and without payment of that fee.

- September 18 Wednesday, to September 28, Saturday. For University Extension students desiring credit.
 September 20 Friday, to September 25, Wednesday. For students in Barnard College and in the School of Law.
 September 21 Saturday, to September 25, Wednesday. For students in the Schools of Education and Practical Arts.
 September 23 Monday, to September 25, Wednesday. For students in Columbia College, Seth Low Junior College, the Schools of Architecture, Business (undergraduate), Dental and Oral Surgery, Engineering, Journalism, Library Service, Medicine, Optometry, and for University Undergraduates.
 September 23 Monday, to September 28, Saturday. For graduate students in Political Science, Philosophy, Pure Science, Business, and Public Health.
 September 25 Wednesday. Winter Session, 182d year begins.
 September 26 Thursday. Classes begin.

18 '42

School

Columbia University

BULLETIN OF INFORMATION

Thirty-fifth Series, No. 42

July 20, 1935

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1935-1936



630 WEST 168TH STREET
NEW YORK

Columbia University Bulletin of Information

Thirty-fifth Series, No. 42

July 20, 1935

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1. Reports of the President and Treasurer to the Trustees.
2. The Catalogue Number, Directory Number, and the Announcements of the several Colleges and Schools and Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent without charge upon application to the Secretary of the University.

C.U.P. 5,800-1935.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to The School of Dental and Oral Surgery, 630 West 168th Street; telephone Billings 5-6000.

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1935-1936



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS OF THE FACULTY

- NICHOLAS MURRAY BUTLER, LL.D. (Cantab.), D.Litt. (Oxon.), Hon.D. (Paris)
President of the University
- WILLARD COLE RAPPLEYE, A.M., M.D. *Dean*
- ARTHUR TAYLOR ROWE, D.D.S. . . . *Associate Dean and Secretary of the Faculty*

FACULTY

- ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon,
Presbyterian Hospital.
- CHARLES FRANCIS BODECKER *Professor of Dentistry*
D.D.S., Buffalo, 1900.
- HANS THACHER CLARKE *Professor of Biological Chemistry*
B.Sc., London, 1908; D.Sc., 1913.
Consultant in Biological Chemistry, Presbyterian Hospital.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.Sc., 1930.
Consultant in Anatomy, Presbyterian Hospital.
- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; B.S., New York
University, 1915.
Attending Oral Surgeon, Presbyterian Hospital, Sloane Hospital, Babies Hospital, Fifth Avenue
Hospital, Vanderbilt Clinic; Consulting Oral Surgeon, Knickerbocker Hospital, Nassau Hospital,
Roosevelt Hospital, St. Vincent's Hospital, Hospital for Ruptured and Crippled, St. Luke's Hos-
pital, Mary Immaculate Hospital, Jamaica Hospital, State Reconstruction Hospital, West Haver-
straw Hospital, United Port Chester Hospital, North Hudson Hospital, Hackensack General
Hospital.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895.
Director of the Department of Dentistry, New York Orthopedic Dispensary and Hospital.
- FREDERICK PARKER GAY *Professor of Bacteriology*
A.B., Harvard, 1897; M.D., Johns Hopkins, 1901; Sc.D., George Washington, 1932.
Bacteriologist, Presbyterian Hospital.
- HENRY WEBSTER GILLET *Professor of Dentistry*
D.M.D., Harvard, 1885.
- LEROY LEO HARTMAN *Professor of Dentistry*
D.D.S., Northwestern, 1913.
Attending Dental Surgeon, Presbyterian Hospital.
- MILO HELLMAN *Professor of Dentistry*
D.D.S., Pennsylvania, 1905; Sc.D., 1933.
- ANNA VERONICA HUGHES *Professor of Dentistry, in Charge
of Courses in Oral Hygiene*
D.M.D., Tufts, 1909.

- JAMES WESLEY JOHLING *Professor of Pathology*
M.D., Tennessee Medical, 1897.
Pathological Director, Presbyterian Hospital; Consulting Pathologist, Sloane Hospital.
- HAROLD JUDSON LEONARD *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915.
Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906.
Consultant in Pharmacology, Presbyterian Hospital, Mount Sinai Hospital.
- WILLARD COLE RAPPLEYE *Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (Hon.), Yale, 1922.
- ARTHUR TAYLOR ROWE *Professor of Dentistry*
D.D.S., Minnesota, 1906.
Attending Dental Surgeon, Presbyterian Hospital; Consultant in Dentistry, State Training School for Boys, Warwick, N. Y.
- LEUMAN MAURICE WAUGH *Professor of Dentistry*
D.D.S., Buffalo, 1900.
Consultant in Orthodontia, New York Orthopedic Dispensary and Hospital; New York Infirmary for Women and Children.
- HORATIO BURT WILLIAMS *Dalton Professor of Physiology*
A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
Consultant in Physiology, Presbyterian Hospital; Consulting Physician, Greenwich Hospital.

OTHER OFFICERS OF INSTRUCTION

- DOROTHY H. ANDERSEN *Instructor in Pathology*
A.B., Mt. Holyoke, 1922; M.D., Johns Hopkins, 1926.
Second Assistant Attending Pathologist, Presbyterian Hospital.
- EMERIC ANGELUS *Assistant in Dentistry*
D.D.S., Columbia, 1931.
- EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922.
- HOWARD T. APPLEGATE *Assistant in Dentistry*
D.D.S., New York College of Dentistry, 1919.
- WILLIAM WELLS BAADE *Assistant in Dentistry*
D.D.S., Minnesota, 1921.
- HENRY ULYSSES BARBER, JR. *Instructor in Dentistry*
D.D.S., Pennsylvania, 1916.
- HENRY ARTHUR BARTELS *Instructor in Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927.
- WALTER REGINALD BEAVEN *Instructor in Pharmacology*
D.D.S., Columbia, 1926.
- SAMUEL BIRENBACH *Instructor in Dentistry*
D.D.S., New York College of Dentistry, 1917.
Visiting Oral Surgeon, Morrisania Hospital.
- OLON NATHANIEL BLACKBERG *Instructor in Pharmacology*
D.V.M., Cornell, 1918; B.S., Texas Agricultural and Mechanical, 1926; Ph.D., Tulane, 1928.
- RICHARD M. BRICKNER *Associate in Neurology*
B.S., Columbia 1921; M.D., 1923.

- MAURICE BUCHBINDER *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1917; D.D.S., Columbia, 1925.
- LESTER RICHARD CAHN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917.
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE SAMUEL CALLAWAY *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1923.
Attending Orthodontist, Fifth Avenue Hospital, Polyclinic Hospital.
- RUSSELL LEGRAND CARPENTER *Assistant Professor of Anatomy*
B.S., Tufts, 1924; Ph.D., Harvard, 1928.
- KENNETH FULTON CHASE *Instructor in Dentistry*
D.M.D., Tufts, 1928.
Attending Dental Surgeon, New York Eye and Ear Infirmary; Clinical Assistant, Roosevelt Hospital.
- CLARENCE O. CHENEY *Professor of Psychiatry*
A.B., Columbia, 1908; M.D., 1911.
Director, New York State Psychiatric Institute and Hospital.
- KENNETH STEWART COLE *Assistant Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Assistant Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- WILLIAM HOPKINS CRAWFORD *Associate Professor of Dentistry*
D.D.S., Minnesota, 1923.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914.
- LOUIS BASIL DOTTI *Instructor in Physiology*
B.S., Columbia, 1929; A.M., 1931.
- WALTER F. DUGGAN *Instructor in Physiology*
A.B., Columbia, 1923; A.M., 1925; M.D., 1927.
- JAMES MORSE DUNNING *Assistant in Dentistry*
A.B., Harvard, 1926; D.D.S., Columbia, 1930.
- ADOLPH ELWYN *Associate Professor of Neurology*
B.S., Columbia, 1915; A.M., 1917.
- JACOB ERDREICH *Assistant in Dentistry*
D.M.D., Tufts, 1931.
- HAVEN EMERSON *Professor of Public Health Practice*
A.B., Harvard, 1896; A.M. and M.D., Columbia, 1899.
- ABRAHAM FIRESTONE *Instructor in Anatomy*
A.B., College of the City of New York, 1920; M.D., Columbia, 1924.
Assistant Urologist, Mount Sinai Hospital.
- FREDERICK BONNER FLINN *Associate Professor of Physiology in*
A.B., Johns Hopkins, 1900; Ph.D., Columbia, 1923. *Industrial Hygiene*
- JOSEPH OCTAVIUS FOURNIER *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1913.
Dental Consultant, Marine Hospital, U. S. Public Health Service.
- EDWARD SETTLE GODFREY, JR. *Clinical Professor of Epidemiology*
M.D., Virginia, 1900.

- LEO JOSEPH HAHN *Instructor in Physiology*
Ph.D., Yale, 1914; M.D., 1918.
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902.
Attending Dental Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint Diseases; Chief, Periodontia Department, Beth Israel Hospital.
- FRANKLIN HOLLANDER *Research Associate in Dentistry*
B.S., Columbia, 1919; Ph.D., 1923.
- HOUGHTON HOLLIDAY *Associate Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917.
Assistant Attending Dental Surgeon, Presbyterian Hospital.
- KATHERINE FLORENCE HOLLIS *Instructor in Dentistry*
Certificate in Oral Hygiene, Columbia, 1921.
- EARLE BANKS HOYT *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1918.
- MARY CAROLINE HRUBETZ *Instructor in Physiology*
A.B., California, 1920; A.M., Columbia, 1928; Ph.D., 1934.
- MELVILLE HUMBERT *Instructor in Pharmacology*
A.B., Columbia, 1923; B.S., 1924; D.D.S., 1926.
- IRVIN L. HUNT, JR. *Instructor in Dentistry*
D.D.S., Pennsylvania, 1929.
- MOSES L. ISAACS *Assistant Professor of Sanitary Science*
A.B. and A.M., Cincinnati, 1921; Ph.D., 1923.
- MAXWELL KARSHAN *Associate Professor of Biological Chemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- EUGENE J. KELLY *Instructor in Dentistry*
D.D.S., Pennsylvania, 1928.
- BARRY G. KING *Instructor in Physiology*
A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.
- ³CHARLES I. LAMBERT *Professor of Psychiatric Education in Teachers College*
B.S., Iowa, 1901; M.S. and M.D., 1903.
Attending Psychiatrist, Vanderbilt Clinic; Assistant Consultant, Presbyterian Hospital, Sloane Hospital.
- GEORGE FRANK LINDIG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924.
- JULIUS K. LITTMAN *Instructor in Anatomy*
M.D., Long Island College Hospital, 1926.
Assistant Adjunct in Surgery, Bronx Hospital.
- JOSEPHINE EMILY LUHAN *Assistant Professor of Dentistry*
D.D.S., New York College of Dental and Oral Surgery, 1912.
- L. VOSBURGH LYONS *Instructor in Neurology*
M.D., Columbia, 1917.
- EWING CLEVELAND McBEATH *Associate Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; M.D., 1921.

³On leave Spring Session.

- FRANCIS STEPHEN McCAFFREY *Assistant Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915.
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon, Fordham Hospital;
Attending Dental Surgeon, Presbyterian Hospital; Junior Oral Surgeon, Manhattan Eye, Ear, and
Throat Hospital; Assistant Attending Oral Surgeon, Vanderbilt Clinic; Consulting Oral Surgeon,
Manhattan State Hospital.
- MORELL DION MCKENZIE *Instructor in Dentistry*
D.D.S., Minnesota, 1917.
- DONALD JOHN W. McLAUGHLIN *Instructor in Dentistry*
D.D.S., Minnesota, 1926.
- JOSEPH L. MCSWEENEY *Assistant in Dentistry*
D.D.S., Tennessee, 1920.
- HENRY MILCH *Instructor in Anatomy*
A.B., Columbia, 1916; M.D., 1916.
Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct
Surgeon, Riverside Hospital.
- MILTON R. MILLER *Assistant in Dentistry*
B.S., Columbia, 1928, D.D.S., 1930.
- WILLIAM MILLER *Assistant in Dentistry*
B.S., Columbia, 1929; D.D.S., 1931.
- EDWARD GERALD MURPHY *Instructor in Dentistry*
D.D.S., Michigan, 1924.
- ROBERT W. NORTHROP *Instructor in Dentistry*
D.D.S., Michigan, 1928.
- ARMAND M. OPPENHEIMER *Special Lecturer in Dentistry*
A.B., College of the City of New York, 1926; B.S., Columbia, 1927; D.D.S., 1929.
- ENID TRIBE OPPENHEIMER *Instructor in Physiology*
B.Sc., London, 1908.
- WALTER WALKER PALMER *Bard Professor of the Practice of Medicine*
B.S., Amherst, 1905; Sc.D., 1922; M.D., Harvard, 1910; Sc.D., Columbia, 1929.
Director of Medical Service, Presbyterian Hospital; Consulting Physician, Sloane Hospital.
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914.
Assistant Attending Oral Surgeon, Presbyterian Hospital; Instructor in Surgery, College of
Physicians and Surgeons; Consultant in Oral Surgery, Swedish Hospital, Vassar Hospital,
Grasslands Hospital.
- HORACE O. PARRACK *Research Assistant in Physiology*
A.B., West Virginia, 1929; A.M., Columbia, 1932.
- JOHN MUSSEY PEARCE *Assistant in Pathology*
Ph.B., Yale, 1930; M.D., Harvard, 1934.
Assistant Resident Pathologist, Presbyterian Hospital.
- EARLE BERNARD PHELPS *Professor of Sanitary Science*
B.S., Massachusetts Institute of Technology, 1899.
- HENRY JOSEPH POWELL *Assistant in Dentistry*
B.S., Manhattan, 1928; D.D.S., Columbia, 1931.
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
D.D.S., Marion Sims Dental College, 1903.

- FRANK ELMER RIANs *Instructor in Dentistry*
D.D.S., Buffalo, 1905.
- MAURICE N. RICHTER *Assistant Professor of Pathology*
B.S., Columbia, 1910; M.D., 1921.
Assistant Attending Pathologist, Presbyterian Hospital.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Instructor in Dentistry*
B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930.
- BENJAMIN SALZER *Instructor in Neurology*
M.D., Zurich, 1911.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; D.D.S., 1922.
Associate Attending Dental Surgeon, Presbyterian Hospital; Oral Surgeon, O.P.D., Mount Sinai Hospital, German Polyclinic; Consulting Oral Surgeon, Jewish Memorial Hospital.
- ALEITA H. SCOTT *Associate Professor of Physiology*
A.B., Hunter, 1912; Ph.D., Columbia, 1923.
- ERNEST LYMAN SCOTT *Associate Professor of Physiology*
B.S., Ohio Wesleyan, 1902; M.S., Chicago, 1911; Ph.D., Columbia, 1914.
- ALBIN ROBERT SEIDEL *Instructor in Dentistry*
D.M.D., Tufts, 1927.
Assistant Director of Dental Service and Associate Attending Dental Surgeon, Presbyterian Hospital.
- AURA EDWARD SEVERINGHAUS *Assistant Professor of Anatomy*
B.S., Columbia, 1916; A.M., 1920; Ph.D., 1929.
- HARRY H. SHAPIRO *Instructor in Anatomy*
D.M.D., Tufts, 1918.
Attending Dentist, Cornwall Hospital.
- ADELAIDE ROSS SMITH *Associate in Medicine in Industrial Hygiene*
A.B., Wellesley, 1916; M.D., Cornell, 1921.
- GILBERT PERCIVAL SMITH *Instructor in Dentistry*
D.D.S., Minnesota, 1927.
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
Associate Consultant in Anatomy, Presbyterian Hospital.
- IRVING J. SPERBER *Special Lecturer in Dentistry*
D.D.S., New York College of Dentistry, 1918.
- MICHAEL RUSSELL STEIN *Instructor in Dentistry*
D.D.S., New York University, 1927.
- ELIAS L. STERN *Instructor in Anatomy*
B.S., Columbia, 1920; M.D., 1922.
Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.
- FERDINAND A. STEWART, JR. *Instructor in Dentistry*
A.B., Pennsylvania, 1921; D.D.S., 1924.

- LEWIS RIDDELL STOWE *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1916.
Assistant Attending Dental Surgeon, Presbyterian Hospital.
- OLIVER SMITH STRONG *Professor of Neurology and Neurohistology*
A.B., Princeton, 1886; A.M., Columbia, 1892; Ph.D., 1896.
Consultant in Neuropathology, Vanderbilt Clinic.
- HARRY STRUSSER *Special Lecturer in Dentistry*
D.D.S., New York University, 1918.
- ARTHUR CRANSTON TOTTEN *Instructor in Dentistry*
D.D.S., Pennsylvania, 1926.
- MILTON SCOTT TUCKER *Instructor in Dentistry*
L.D.S. and D.D.S., Royal College of Dental Surgeons, Toronto, 1923.
- GENEVA HASTINGS WALLS *Instructor in Dentistry*
Dental Hygiene Diploma, Forsyth Dental Infirmary, 1917.
- PAUL BENJAMIN WIBERG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1920.
- EDITH L. WILE *Instructor in Physiology*
A.B., Vassar, 1921; M.S., Yale, 1923.
- HAROLD S. WOODRUFF *Assistant in Dentistry*
D.D.S., Minnesota, 1918.
- HARRY ALLEN YOUNG *Assistant Professor of Dentistry*
D.D.S., Indiana, 1919.
- MORRIS A. ZIMMER *Instructor in Dentistry*
D.D.S., New York University, 1918.
Attending Dental Surgeon, Beth Israel Hospital, Newark, N. J.
- DANIEL E. ZISKIN *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1917.
Assistant Attending Dental Surgery, Presbyterian Hospital.
- RAYMUND L. ZWEMER *Assistant Professor of Anatomy*
A.B., Hope, 1923; Ph.D., Yale, 1926.

VOLUNTARY ASSISTANTS

- | | |
|----------------------------------|----------------------------------|
| RALPH BECKER, B.S., D.D.S. | HARRY GALTON, D.D.S. |
| FRANK E. BEUBE, D.D.S. | WARREN S. HOUSTON, D.D.S. |
| DONALD McL. BISHOP, D.M.D. | CLIFFORD JOHNSON, D.M.D. |
| RAYMOND M. BRISTOL, D.D.S. | JESSE L. LEFCOURT, B.S., D.D.S. |
| CHARLES R. BUSHONG, A.B., D.D.S. | WILLIAM LEFKOWITZ, D.D.S. |
| ROSE COHEN, D.D.S. | EUNICE LEMAY, D.M.D. |
| ROBERT M. DEVINE, B.S., D.D.S. | HERBERT F. SILVERS, B.S., D.D.S. |
| SAMUEL B. DRELICH, D.D.S. | JACOB M. ZINNER, D.D.S. |

PRESBYTERIAN HOSPITAL DENTAL SERVICE

HAROLD J. LEONARD, D.D.S., B.S., *Director*ALBIN R. SEIDEL, D.M.D., *Assistant Director**Attending Dental Surgeons*

ADOLPH BERGER, D.D.S.

HAROLD J. LEONARD, B.S., D.D.S.

LEROY L. HARTMAN, D.D.S.

FRANCIS S. McCAFFREY, B.S., D.D.S.

ISADOR HIRSCHFELD, D.D.S.

ARTHUR T. ROWE, D.D.S.

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.

JOSEPH SCHROFF, B.S., M.D., D.D.S.

ALBIN R. SEIDEL, D.M.D.

Assisting Attending Dental Surgeons

HOUGHTON HOLLIDAY, A.B., D.D.S.

LEWIS R. STOWE, D.D.S.

DANIEL E. ZISKIN, D.D.S.

Interns

EDWARD BECKER, D.M.D.

PAUL A. MORIN, D.M.D.

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, M.D., D.D.S., *Attending Oral Surgeon*DOUGLAS B. PARKER, M.D., D.D.S., *Assistant Attending Oral Surgeon*

COMMITTEES

*Administration*Dean RAPPLEYE, *Chairman*, Professors BODECKER, H. S. DUNNING, HARTMAN, LEONARD, ROWE, and WAUGH*Curriculum*Professor ROWE, *Chairman*, Professors BERGER, BODECKER, HARTMAN, KARSHAN, LEONARD, LIEB, and RICHTER*Library*Professor ROWE, *School of Dental and Oral Surgery Representative**Extension and Graduate Courses*Professor WAUGH, *Chairman*, Professors BERGER, CAHN, CRAWFORD, and H. S. DUNNING*Research*Professor BODECKER, *Chairman*, Professors BERGER, CAHN, CRAWFORD, DIAMOND, HELLMAN, and Dr. STEIN

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Acting Director of University Admissions</i>
CHARLES C. WILLIAMSON, Ph.D., Litt.D.	<i>Director of University Libraries</i>
ROGER HOWSON, A.M.	<i>Librarian</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
CHARLES S. DANIELSON	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Superintendent of Buildings and Grounds</i>
REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. MCCASTLINE, M.D.	<i>University Medical Officer</i>
HERBERT B. HOWE, A.M.	<i>Director of Men's Residence Halls</i>
W. EMERSON GENTZLER, A.M.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.B.	<i>Alumni Secretary</i>

SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work; but in 1784 it was reopened as Columbia College. In 1912, the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center where it occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The College of Physicians and Surgeons in which the fundamental medical science subjects are given adjoins it, the halls of the two being continuous. In adjacent wings, the halls of which are continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course of dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental departments of the College of Physicians and Surgeons.

STUDENTS

A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a non-matriculated student with permission to attend such courses of instruction as he is qualified to take but not as a candidate for a degree, certificate, or diploma in regular course. Non-matriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Non-matriculated students may receive formal statement of the satisfactory completion of any course.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls, the receipt by him of academic credits, his graduation, or the conferring of any degree or the granting of any certificate are strictly subject to such exercise of the disciplinary power of the University as may be necessary to enforce the rules of the University and to maintain standards of personal conduct and character acceptable to the University. In the exercise of academic discipline, the student's conduct outside as well as inside the University will be taken into consideration.

The disciplinary authority of the University is vested in the President in such cases as he deems proper, and subject to the reserve powers of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Diplomas are issued at Commencement, in February and October (in the case of the A.M. degree, at Commencement, in February and December, or, in the case of the Ph.D., Med.Sc.D., Jur.Sc.D., and Ed.D. degrees, upon completion of the requirements; also in August for the D.D.S. degree, and the B.S. degree in optometry).

An application for a degree or certificate, other than the Ph.D., Med.Sc.D., Jur.Sc.D., or Ed.D. degrees terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar on the last pages of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing are required to notify the Registrar immediately.

The Dean of the school or faculty concerned, may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions under which the departments of instruction are grouped, may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 60,000 volumes and about 33,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center and is open to students from 9 a.m. to 10 p.m., on week days.

This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, and teachers of the combined schools and Presbyterian Hospital Unit. It has a seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received 550 current journals, and nearby will be shelved the bound volumes of the most important journals covering a period of approximately ten years. In addition, the more important reference works, the systems of medicine and surgery, some of the German *Handbücher* and other bibliographical tools will be available for intensive research work.

The book collections are systematically arranged under the Library of Congress classification, and the serials shelved in a strictly alphabetical order, so as to insure quick service and prompt delivery over the loan desk.

The dictionary catalogue in the lobby, with its author, subject, and title entries, should be freely consulted as a guide and index to the subject matter in the combined collections of the library.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other

departments of the University. They may reside in the University dormitories at Morningside Heights, and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry, and supplement the special collections available in the College of Physicians and Surgeons, and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dentistry.

University Gymnasium. The Gymnasium is situated on Morningside Heights, and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dentistry may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education who is assisted by a corps of able instructors.

Employment. The Appointments Office located in East Hall is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is being operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

The University Medical Officer, DR. W. H. McCastline, has direct supervision of all matters affecting the health of the student body. All cases of illness, especially communicable diseases, should be reported to him promptly. The Medical Officer and the members of his staff hold office hours daily in Earl Hall for the medical care of students and members of the staff.

RESIDENCE HALLS

All students registered within the University regularly pursuing their courses of study are eligible for residence in University Residence Halls. The University desires its students to live whenever possible in the Residence Halls which are a part of the educational development and life of Morningside Heights. These Halls, owned and controlled by the University, are located on or immediately adjacent to the Campus, afford easy access to library and laboratories, and should provide for students companionship with persons of like interest. Within several of the Residence Halls and in the University Commons, dining rooms are maintained by the University and administered by skilled dietitians. Infirmarys are maintained for the exclusive use of students in the Residence Halls. Assignment of room is made on the academic year basis but rentals may be paid on session, monthly, or in case of need, weekly basis.

Application blanks for rooms and copies of Residence Halls Announcements, giving floor plans and dormitory regulations, will be furnished on request by the Secretary of the University, 213 Low Memorial Library.

Residence for Men

The office of the Director of Men's Residence Halls is 125 Livingston Hall. The four Residence Halls for men are located on South Quadrangle with accommodations for approximately 1,350 men. Hartley Hall and the fifth, sixth, and seventh floors of John Jay Hall are reserved primarily for the undergraduate students of Columbia College. Fernald Hall is primarily reserved for law students while Livingston Hall and the eighth to the fifteenth floors of John Jay Hall are for graduate and professional school students.

Adequate restaurant facilities are provided in John Jay Hall and a combination room and board rate is offered to all residents.

Room fees for the academic year range from \$130 to \$234. The lower-priced rooms are assigned as scholarship awards by special application to the Secretary of Appointments.

The University infirmary for men is located on the top floor of John Jay Hall. The services of the infirmary are exclusively available to residents of the dormitories.

Residence for Women

Graduate and professional women within the University live in Johnson Hall. The Hall was erected and particularly designed for the comfort and convenience of women students. With its ample social rooms and attractive dining room and bedrooms, it offers conditions enabling students to gain the greatest benefit from University life. Attention is called to the table of estimated expenses on page 23 of this Announcement.

The University infirmary for women is located on the top floor of Johnson Hall. The services of the infirmary are exclusively available to residents of the dormitories.

In cases of financial emergency for students of excellent standing already at the University, some grants-in-aid are available, applicable to Residence Halls fees. Application should be made to the head of the Hall.

Residence in Barnard College and Teachers College

Barnard College maintains dormitories for undergraduate women. When space is available graduate women, particularly when graduates of Barnard College, will be received in residence. Dining facilities are provided for students in Barnard College.

Teachers College maintains five Residence Halls. In Whittier Hall rooms and dining facilities are offered for women students. In Seth Low Hall rooms without dining facilities are offered women students. Bancroft Hall, Grant Hall, and Sarasota Hall contain apartments in which housekeeping can be carried on and which are especially adapted for the use of married students.

RESIDENCE BUREAU

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the University Residence Bureau in East Hall.

KING'S CROWN HOTEL

The King's Crown Hotel, located at 420 West 116th Street, in close proximity to the University, is owned by the University and operated by the Knott Hotels Corporation. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main floor, reached by the Campus entrance, are the offices of the Religious Counselors. On the upper floor are the offices of the Chaplain of the University and his staff. An auditorium seating 300 people is used by musical and dramatic organizations. The lower floor, entered from Broadway, is occupied by the office of the University Medical Officer.

UNIVERSITY BOOKSTORE

The medical branch of the University Bookstore is situated in Room B-441 of the College of Physicians and Surgeons. Medical and dental textbooks, whenever such discounts are permitted by the publishers, and other supplies are sold at discounts from the usual prices. The store is open from 8:30 a.m. to 8:00 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services, with substantial savings to Columbia students. Students having deposit accounts with the University may also make withdrawals at the Bookstore.

For the benefit of students wishing to buy or sell used medical or dental textbooks a second-hand exchange is operated in connection with the Medical Center Bookstore, Room B-441. Details of the operation of the exchange may be had in the Bookstore.

REQUIREMENTS FOR ADMISSION, PROMOTION, AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application by March 1 in order to be passed upon by the Committee on Admissions at an early date. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is attendance for three full years at an acceptable college of arts and sciences, which must include successful completion of ninety-four points as rated by Columbia College, and of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

English composition and literature, 6 semester hours.

Physics, 6 semester hours.

Biology, 6 semester hours.

Chemistry (including an approved course in organic chemistry), 12 semester hours.

Inasmuch as an understanding of the medical sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary and so difficult to attain in later years.

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected.

Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

In order that the best selections may be made from among the candidates who are

eligible for admission, all applicants who are eligible will be requested to report at the Dean's office for a personal interview some time prior to the final action of the Committee on Admissions. Those who remain on the eligible list after a personal interview will be given an examination as to mechanical ability and manual dexterity. This test will be given at various times during the year. It will consist of exercises in mechanical and free hand drawing, metal filing, and moulding in plastic material, and will be conducted by the technic teachers in the School.

Fee on Admission. A fee of \$50 is payable by the applicant within ten days of his receipt of notice that he has been accepted for admission. A check to the order of Columbia University should be returned by the accepted applicant with notice that he intends to matriculate. If the applicant registers within the prescribed registration dates in September, this fee will be credited on his tuition account. If he fails to register the fee lapses and will be used by the University to meet the cost of its administrative and overhead charges in caring for applicants who do not finally register.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work.

No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Course in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

Admission to Advanced Standing. Students will not be admitted to advanced standing upon examination, but only upon a satisfactory record from their school of previous residence. Provided they are eligible for the dental student qualifying certificate required by the New York State Department of Education and can submit evidence of the satisfactory completion of the entrance requirements of this school previous to entrance to any dental school, candidates who have completed, without condition, one or two years of study in a dental school registered in the state of New York including courses equivalent to those given at this school are eligible to apply for admission to the second or third years, respectively. Students applying for admission to the third year must have passed the partial examination of the New York State Board of Dental Examiners.

Owing to the lack of uniformity in the arrangement of the first and second year curricula in the various dental schools a transfer can usually be accomplished with the least adjustment at the end of the second year.

Application blanks may be obtained from the Dean's office.

SUMMER SESSION

No regular courses will be offered during the Summer Session of 1935. Students who have successfully completed all of the requirements of the third year may elect work in clinical practice, without credit, beginning June 5, 1935, subject to the approval of the Department.

Students having deficiencies in technical or clinical courses must register for those courses by June 5, 1935. Fees will be charged on the basis of \$10 per trimester credit.

COURSES IN ORAL HYGIENE

The courses in oral hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, will arrange courses in the various divisions of dentistry at the request of groups of practitioners whenever the undergraduate teaching schedule will permit. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below.

The requirements for admission shall be graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country and the applicant must be a member in good standing of his national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency shall include not less than

forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery.

The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTIA FOR GRADUATES

An organized twelve-month course has been given since 1927 to qualified graduates in dentistry who wish to prepare for specialization in orthodontia. Admission requirements include graduation from an acceptable school of dentistry, and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Director of the Division of Orthodontia or the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as qualification for admission. For information regarding the curricula leading to the Master of Arts or the Doctor of Philosophy degrees under these Faculties see the Graduate Announcement.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar, and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar found at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$6.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed by statute:

(a) University Fee

(1) For each Winter or Spring Session or any part thereof:

For students enrolled for more than six points \$10.00

For students enrolled for six points or less \$5.00

(2) For each Summer Session or any part thereof \$7.00

(b) Tuition Fee

I. For all courses, other than pre-collegiate or non-credit courses in University

Extension, per point, except in cases where a special fee is fixed \$12.50

With the proviso:

That the minimum fee for a Winter or Spring Session in the case of a student enrolled for the full course in the School of Medicine or in the School of Dental and Oral Surgery shall be not less than \$250.00

That the minimum fee for a Winter or Spring Session in the case of a student enrolled for fifteen points or more in Oral Hygiene shall be . . . \$190.00

II. For pre-collegiate or non-credit courses in University Extension, per point \$10.00

(c) Fee for Application

For any degree \$20.00

For any certificate \$10.00

(d) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations \$6.00

2. Deficiency and special examinations \$3.00

3. Renewal of application for any degree or certificate \$1.00

The conditions under which such privileges shall be granted are to be determined by the Registrar with the approval of the President.

(e) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.

2. After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a deficiency or a special examination, or for a degree, without the payment of an additional fee, see the Academic Calendar. An examination to remove a deficiency in a course, or an examination at an unusual time, involves the payment of a fee.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals, beyond this allowance; and service in washing apparatus, or work by a mechanic. A deposit of \$25 will be required in the School of Dental and Oral Surgery each year to cover material and breakage in the laboratories; for each Summer Session, \$10.

Instruments. Each student is required to supply himself with a microscope of a satisfactory type and instruments as specified in the official instrument list. The purchase from the University of microscopes and instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. Dental engines are rented from the School at the rate of \$15 for the academic year, payable in advance on registration in September. Instrument cases are also rented from the School, the fee of \$10 for two cases being deducted from the breakage fee at the end of the year.

Supplies. All technic material and regular supplies *must* be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the students' best interests.

Lockers. Each student on entering will be required to supply himself with one combination lock as prescribed by the School. Locks are one dollar each.

ESTIMATED EXPENSES FOR ACADEMIC YEAR

Following is an itemized estimate of the average expenses of a full-time student in the School of Dental and Oral Surgery for the academic year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are of course variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year, and can be accepted as applicable for the year 1935-1936 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$545	\$545
Room	180	144
Board	252	200
Books	30	20
Instruments (see below)	120	100
Laundry	40	28
	<hr/>	<hr/>
	\$1,167	\$1,037

The approximate cost of instruments for the four-year course is as follows: first year, \$115; second year, \$210; third year, \$130; fourth year, \$25. In addition, the microscope required at the beginning of the course will cost between \$60 and \$160. The cost of books will vary, depending upon the choice made from the selection offered. Instruments are payable at the opening of the school year.

Medical advice and treatment of minor ailments are rendered free of charge by the University Medical Officer.

EXAMINATIONS AND STANDING

Final examinations are held at the end of the course, and reexaminations for students with conditions are held within one month after the close of the regular academic year.

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, reexamination required; Inc., incomplete, completed work must be submitted within the time limit set by the instructor. One reexamination will be allowed in a course graded F; if the examination is passed the grade will be C.

No student will be recommended for the degree of Doctor of Dental Surgery until he has completed all the required practical work and passed satisfactory examinations in all the subjects of the entire course.

CONDITIONS FOR ADVANCEMENT

Advancement will be granted to such students as have received passing grades in all subjects.

A student who has failed in any one of his courses is not allowed to go on with his class until he has removed that failure to the satisfaction of the head of the department.

A student who has failed two courses in the first year may be allowed reexamination in the failed courses provided that the failures do not comprise any two out of the three following courses: gross anatomy, physiology, and biological chemistry.

A student who has failed in two courses of the second, third, or fourth years may be allowed reexamination in the two failed courses provided the failed subjects do not include operative dentistry, prosthetic dentistry, or crown and bridge work, and that the total hours of the two courses failed do not exceed one third of the total course hours for that year.

Students who receive conditions or failures amounting to one-third or more of the year's work must repeat the work of the entire year if allowed to reregister.

A student may repeat an entire year only once during his dental course and may not repeat any other year later, unless the Faculty of the School votes to suspend this rule on recommendation of the class Faculty under which the student has been working.

The class Faculties have general supervision of students' work and the application of these regulations to individual cases.

The Faculty reserves the right to refuse readmission to any student who, upon recommendation of his class Faculty, is believed to be unsuited to the conditions of study and advancement in the School.

The Faculty reserves the right to amend the schedule of studies from time to time at its discretion, without further notice.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral

character, and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York.

All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are (1) anatomy, (2) chemistry and metallurgy, (3) operative dentistry and radiography, (4) therapeutics and materia medica, (5) physiology and hygiene, (6) oral surgery, pathology and bacteriology, (7) prosthetic dentistry, (8) histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 per cent.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

In view of the prevailing economic depression recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize to be known as the Ella Maria Ewell Medal will be awarded annually to that student of the School of Dental and Oral Surgery who may, in the judgment of the Faculty, be most proficient in some subject of dentistry. The branch of dentistry for which the award is made will be determined by the executors of the will of Glover C. Beckwith-Ewell.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS

President, RAYMOND M. BRISTOL, D.D.S.

Vice-President, BENJAMIN B. KAMRIN, B.S., D.D.S.

Secretary, MERVIN AARONSON, D.D.S.

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Delegates to Board of Governors of Columbia Alumni Federation, Drs. JOSEPH SCHROFF, JOSEPH R. HORN, and RAYMOND M. BRISTOL.

Membership. Any graduate, former student, member of the Faculty, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

COURSE OF STUDIES

For purposes of instruction the work of each year is scheduled in three trimesters of eleven weeks each from September to May. These are designated as First, Second, and Third, and in 1935-1936 begin on September 26 and December 13, 1935 and March 14, 1936 respectively. The last day of classes for seniors will be May 16, 1936, for all other classes June 6, 1936. Registration and collection of fees for the regular academic year are administered in accordance with the University Academic Calendar in September and February.

Courses numbered from 100 to 200 are open to candidates for the degree of Doctor of Dental Surgery in their first and second years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in their third and fourth years, and to graduates in dentistry.

Following the completion of a certain proportion of the work of the fourth year, qualified students may choose electives with the consent of the head of the department and with permission of the class Faculty. Each elective listed has the value of one trimester credit, and requires one hour of class work or one laboratory session a week for one trimester.

SUMMARY OF STUDIES

The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

The outline on page 27, drawn up from the point of view of the student and covering the four years' study, shows the work required of a candidate for the degree of Doctor of Dental Surgery. The unit of credit used is the trimester credit which signifies approximately three academic hours of work a week for one trimester of ten weeks. For classroom work this means one hour in class a week, each requiring an average of two hours of home work. For laboratory or clinical work requiring no outside study it represents three hours of work a week in the School. For a detailed statement of the content of each course, and other questions of detail, the student is referred to the departmental statements which follow.

The schedules of required work hours are subject to change at the pleasure of the Faculty.

<i>Subject</i>	<i>Lecture Hours</i>	<i>Laboratory or Clinic Sessions</i>	<i>Credits</i>	<i>Academic Hours</i>
FRESHMAN YEAR:				
Anatomy, Gross	5	10	15	300
Anatomy, Microscopic	4	4	8	160
Anatomy, Neuro	2	2	4	80
Anatomy, Oral	1	5	6	160
Biochemistry	4	4	8	160
Histology, Oral		2	2	60
Physiology	6	4	10	180
Prosthetics	1	1	1	40
			54	1140
SOPHOMORE YEAR:				
Bacteriology	4	3	7	130
Crown and Bridge		3	3	90
Dental Materials		2	2	60
Hygiene, Oral	2		2	20
Operative Dentistry	1	8	9	250
Pathology	4	5	9	178
Pharmacology	4	2	6	100
Prophylaxis, Oral		1	1	30
Prosthetic Dentistry	2	8	8	260
Psychopathology	1		1	10
Radiology	1		1	10
Surgery, Oral	2		2	20
			51	1158
JUNIOR YEAR:				
Crown and Bridge	2	7	9	230
Dental Ethics	1		1	10
Diagnosis, Oral	3	1	4	60
Hygiene, Oral	1		1	10
Operative Dentistry	2	10	12	320
Orthodontia	3	2	4	110
Pathology, Oral	3	2	5	90
Periodontia		1	1	30
Pharmacology, Applied	1		1	10
Prosthetic Dentistry	1	6	7	190
Radiology		1	1	30
Round Wire Technic		1	1	30
Surgery, Oral	1	1	2	40
			49	1160
SENIOR YEAR:				
Crown and Bridge		6	6	180
Dental Economics	1		1	10
Dental History and Jurisprudence	1		1	10
Dentistry for Children	1	3	4	100
Diagnosis, Oral		1	1	30
Operative Dentistry	1	11	12	340
Periodontia	2	1	2	50
Practice of Medicine	6	1	7	90
Prophylaxis, Clinical		1	1	30
Prosthetic Dentistry	2	6	8	200
Public Health	3		3	30
Surgery, Oral	7	1	3	100
Electives	1	2	3	70
			52	1240

COURSES OF INSTRUCTION

ANATOMY

Anatomy 150F—Microscopic anatomy. Sixteen hours a week First Trimester. First year. 8 trimester credits. Professors P. E. SMITH, DETWILER, CARPENTER, COPENHAVER, SEVERINGHAUS, ZWEMER, and assistants.

Lectures, conferences, and laboratory.

This course is the same as the Medical School course *Anatomy 101F*.

Anatomy 151FS—Gross anatomy. A total of 300 hours First and Second Trimesters. First year. 15 trimester credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

BACTERIOLOGY

Bacteriology 151F—General medical bacteriology and immunology. Nine hours a week First Trimester. Second year. 3 trimester credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152F—Principles of epidemiology, infection, immunity, serum diagnosis, and therapy. Four hours a week First Trimester. Second year. 4 trimester credits. Professor GAY.

Lectures given to the dental and medical students together.

BIOLOGICAL CHEMISTRY

Biochemistry 150ST—Introductory biological chemistry. Two hours lecture and six hours laboratory a week Second and Third Trimesters. 8 trimester credits. Professor KARSHAN and assistants.

DENTISTRY

Dentistry 101—Oral anatomy. A total of 160 hours. First year. 6 trimester credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the anatomy and development of the individual teeth and the dentures as a whole.

Dentistry 202—Dentistry for children. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor McBEATH and assistants.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child patient and the application of present knowledge of preventive dentistry to the patient.

Dentistry 203—Dentistry for children clinic. Three hours a week for three trimesters. Fourth year. 3 trimester credits. Professor McBEATH and assistants.

Dentistry 204—Dentistry for children elective. Professor McBEATH.

A reading and conference course.

Dentistry 105-205—Crown and bridge technic. A total of approximately 210 hours. 105—second year, 3 trimester credits; 205—third year, 4 trimester credits. Professors CRAWFORD and HOYT and assistants.

Laboratory work and lectures on the technical procedures in crown and bridge work.

Dentistry 206—Crown and bridge. One hour a week for one trimester. Third year. 1 trimester credit. Professor HOYT.

Lectures on the technical procedures of crown and bridge work.

Dentistry 207—Crown and bridge. One hour a week for one trimester. Third year. 1 trimester credit. Professor HOYT.

Conference course with outside reading on problems in crown and bridge work.

Dentistry 208a-208b—Crown and bridge clinic. A total of 270 hours. 208a—third year, 3 trimester credits; 208b—fourth year, 6 trimester credits. Professors ROWE, HOYT, CRAWFORD, and assistants.

Infirmary practice and demonstrations in crown and bridge construction.

Dentistry 209a-209b—Crown and bridge electives. Professor HOYT and Dr. McLAUGHLIN.

209a. A conference and reading course.

209b. A technic course in porcelain jacket crown construction.

Dentistry 212—Oral diagnosis. One hour a week for three trimesters. Third year. 3 trimester credits. Professors LEONARD and ZISKIN.

Lecture and conference course in oral examination and charting, history taking, methods of testing, dental X-ray diagnosis, oro-dental symptomatology, and problems in oral diagnosis.

Dentistry 213a-213b—Oral diagnosis. A total of sixty hours. Third and fourth years. 2 trimester credits. Professors LEONARD and ZISKIN and clinical staff.

213a. Clinical practice and demonstrations in oral examination and charting, pulp testing, and dental X-ray diagnosis.

213b. The continuation of the above with advanced work in history taking.

Dentistry 214—Oral diagnosis elective. Professor ZISKIN.

A clinical course in oral diagnosis.

Dentistry 115—Oral histology and embryology. Three hours a week for two trimesters. First year. 2 trimester credits. Professors BODECKER and APPLEBAUM.

Lectures and laboratory work on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Dentistry 216—Oral histology and embryology elective. Professor BODECKER.

A laboratory course in oral histology.

Dentistry 121—Oral hygiene and prophylaxis. Three hours a week for one trimester. Second year. 1 trimester credit. Professor HUGHES, Miss HOLLIS, and assistants.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

Dentistry 221—Oral hygiene and prophylaxis. Three hours a week for one trimester. Fourth year. 1 trimester credit. Professors LEONARD and HOLLIDAY.

Clinical dental prophylaxis.

Dentistry 122—Oral hygiene. Two hours a week for one trimester. Second year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on the application of bacteriology, physiology, and biochemistry to preventive dentistry.

Dentistry 222—Oral hygiene. One hour a week for one trimester. Third year. 1 trimester credit. Professor LEONARD.

Community dentistry.

Dentistry 224a-224b—Oral hygiene elective. Professor LEONARD.

224a. A reading and conference course.

224b. A research course.

Dentistry 126—Physical properties of dental materials. Three hours a week for two trimesters. Second year. 2 trimester credits. Professor CRAWFORD.

Metallurgical processes and apparatus. Physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory work.

Dentistry 227—Physical properties of dental materials elective. Professor CRAWFORD.

A research course in dental materials.

Dentistry 131—Operative dentistry technic. A total of 240 hours in three trimesters. Second year. 8 trimester credits. Professors HARTMAN, BUCHBINDER, LINDIG, DR. HUNT, and assistants.

Lectures and laboratory work on operative instruments and materials, their care and uses, root canal technic and the technic of cavity preparations and fillings.

Dentistry 132—Operative dentistry. One hour a week for one trimester. Second year. Professor HARTMAN and assistants.

Lectures on laboratory procedure in operative dentistry.

Dentistry 233—Operative dentistry. One hour a week for two trimesters. Third year. 2 trimester credits. Professors HARTMAN and BUCHBINDER.

Lectures and conferences on operative dentistry procedures.

Dentistry 234a-234b—Operative dentistry clinic. A total of 630 hours. 234a—third year, 10 trimester credits; 234b—fourth year, 11 trimester credits. Professors HARTMAN, BUCHBINDER, LINDIG, DR. HUNT, and assistants.

Clinical practice and demonstrations in operative dentistry.

Dentistry 235—Operative dentistry. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor HARTMAN.

Conference course on problems in operative dentistry.

Dentistry 239a-239b—Operative dentistry electives. Professors HARTMAN and LINDIG.

239a. A reading and conference course.

239b. A course in porcelain inlay technic.

Dentistry 241—Orthodontia. Sixty hours of laboratory work. Third year. 1 trimester credit. Drs. BARBER, GALTON, and MURPHY.

Laboratory instruction in free-hand soldering, the fundamental technic of making appliances and space retainers.

Dentistry 242—Orthodontia. Two hours lecture a week for one trimester and a total of thirty hours of demonstrations in the clinic. Third year. 2 trimester credits. Professors WAUGH and CALLAWAY, Drs. BARBER, MURPHY, TOTTEN, RIAN, and TUCKER.

Orthodontic fundamentals with special emphasis on preventive malocclusion by early recognition and correction of the predisposing factors.

Dentistry 243a-243b—Orthodontia electives. Professor WAUGH.

243a. Clinical orthodontia.

243b. Orthodontic research.

Dentistry 246—Oral pathology. One hour a week lecture for three trimesters. 3 hours a week laboratory for two trimesters. Third year. 5 trimester credits. Professor CAHN and assistant.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Dentistry 247a-247b—Oral pathology electives. Professor CAHN and Dr. BARTELS.

247a. A laboratory course in oral pathology.

247b. A laboratory course in clinical pathology.

Dentistry 251a-251b—Periodontia clinic. Sixty hours. 251a—third year; 251b—fourth year. 2 trimester credits. Professors W. B. DUNNING, LEONARD, HIRSCHFELD, and HOLLIDAY.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Dentistry 252a-252b—Periodontia. One hour a week for two trimesters. Fourth year. 1 trimester credit. Professors LEONARD and HIRSCHFELD.

252a. Lectures and conferences on the theory and practice of periodontia.

252b. Demonstrations of gingival symptoms.

Dentistry 253a-253b-253c—Periodontia electives. Professors LEONARD and HIRSCHFELD.

253a. A reading and conference course.

253b. A course in clinical periodontia.

253c. A course in periodontia research.

Dentistry 155a-155b—Prosthetic dentistry technic. A total of approximately 300 hours. 155a—first year, 1 trimester credit; 155b—second year, 8 trimester credits. Professor YOUNG and assistants.

Lectures and laboratory on the mechanics of denture construction.

Dentistry 256—Prosthetic dentistry. One hour a week for one trimester. Third year. 1 trimester credit. Professor ROWE.

Lectures and conferences on materials and principles of denture construction.

Dentistry 257a-257b—Prosthetic dentistry clinic. A total of 330 hours. 257a—third year, 6 trimester credits; 257b—fourth year, 5 trimester credits. Professors ROWE, CRAWFORD, HOYT, YOUNG, Dr. G. P. SMITH, and assistants.

Infirmity practice and demonstrations in denture construction.

Dentistry 258—Prosthetic dentistry. Three hours a week for one trimester. Third year. 1 trimester credit. Professor GILLET.

Lectures and laboratory work in the construction of round wire clasps and lugs for partial dentures.

Dentistry 259—Prosthetic dentistry. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor ROWE.

Lectures and conferences on correlation of prosthetic dentistry with other branches of dental health service.

Dentistry 260—Prosthetic dentistry. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor ROWE.

Conference course on fundamental problems in prosthetic dentistry.

Dentistry 261—Prosthetic dentistry elective. Professor ROWE.

A reading and conference course.

Dentistry 165—Oral radiology. One hour a week for one trimester. Second year. 1 trimester credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Dentistry 266—Oral radiology elective. Professor HOLLIDAY.

A course in technical radiology.

Dentistry 267—Oral radiology practice. Thirty hours. Third year. 1 trimester credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

Dentistry 168—Principles of surgery. One hour a week for two trimesters. Second year. 2 trimester credits. Professor PARKER.

Lectures and conferences on general surgical diseases and the principles of their treatment.

Dentistry 270—Oral surgery. One hour a week lecture for one trimester. Third year. 1 trimester credit. Professors PARKER and McCaffrey.

Lectures and conferences on local and general anesthesia and exodontia.

Dentistry 271a-271b—Oral surgery clinic. A total of sixty hours. 271a—third year, 1 trimester credit; 271b—fourth year, 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCaffrey, BIRENBACH, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia. Time is also assigned to observation of oral surgical operations and to an organized oral pathology clinic.

Dentistry 272—Oral surgery. Two hours a week for two trimesters. Fourth year. 2 trimester credits. Professors H. S. DUNNING, and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Dentistry 273—Oral surgery. A total of thirty hours. Fourth year. No credit. Professors H. S. DUNNING, BERGER, PARKER, and McCAFFREY.

Demonstration of oral and maxillo-facial lesions.

Dentistry 274—Oral surgery elective. Professor H. S. DUNNING and staff.

Clinical oral surgery.

Dental Medicine 278—General survey of medicine. Two hours a week for three trimesters. Fourth year. 6 trimester credits. Professor McBEATH and associates.

Lectures, conferences and clinics covering the field of general medicine.

Dental Medicine 279—Medico-dental clinic. A total of thirty hours of clinic in three trimesters. Fourth year. 1 trimester credit. Professor McBEATH and associates.

Clinics in small groups in which the patients are studied for systemic and dental relationships.

Dentistry 281—Dental ethics. One hour a week for one trimester. Third year. 1 trimester credit. Professor W. B. DUNNING.

A lecture and conference course with collateral reading on ethics and dental ethics.

Dentistry 282—Dental jurisprudence and history. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor GILLETT.

A lecture and conference course with collateral reading.

Dentistry 283—Dental economics. One hour a week for one trimester. Fourth year. 1 trimester credit. Dr. SMITH.

A lecture and conference course in dental economics and office management.

NEUROLOGY

Neurology 150—Neuro-anatomy. Two hours of lecture and six hours of laboratory a week for one trimester. First year. 4 trimester credits. Professors ELWYN, STRONG, Drs. SALZER, LYONS, and BRICKNER.

Lectures and demonstrations on the gross anatomy, structure and functions of the central nervous system. This course is equivalent to *Neurology 101* in the Medical School.

PATHOLOGY

Pathology 150FS—General and special pathology. Fourteen hours lecture and laboratory a week First Trimester and nineteen hours a week for two weeks of the Second Trimester. Second year. 9 trimester credits. Professors JOBLING and RICHTER and assistants.

Lectures and laboratory.

This course includes the first part (general pathology) of *Pathology 101* in the Medical School but does not include the details of special pathology.

PHARMACOLOGY

Pharmacology 150—General pharmacology. One lecture, one conference, and one three-hour laboratory period for two trimesters. Second year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, BLACKBERG, and HUMBERT.

Lectures and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. One hour a week for one trimester. Third year. 1 trimester credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Nine hours a week for two trimesters. First year. 10 trimester credits. Professor WILLIAMS and assistants.

Lectures, conferences and laboratory. This course is equivalent to *Physiology 101* in the Medical School, the two classes being taught together for lectures.

PSYCHIATRY

Psychiatry 150T—Psychopathology. One hour a week Second Trimester. Second year. 1 trimester credit. Professor LAMBERT.

Lectures on the structural basis of the mind; the instincts and emotions; development of the personality; social adjustment, failures in adjustment, compensatory reactions; types of abnormal behavior, emotional, neurotic and personality factors in physical illness; functional disorders with special reference to dental practice. General principles of mental hygiene.

This course is the same as *Psychiatry 101* in the Medical School.

PUBLIC HEALTH

Public Health 250—Preventive medicine and public health practice. One hour a week for three trimesters. Fourth year. 3 trimester credits. Professor EMERSON and assistants.

This course is the same as the Medical School course, *Preventive Medicine and Public Health Administration 201FST*, the two classes being taught together.

REQUIRED TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY, GROSS. Cunningham, *Manual of Practical Anatomy*. Choice of: Cunningham, *Textbook of Anatomy*; Gray, *Anatomy*; Piersol, *Human Anatomy*.

ANATOMY, MICROSCOPIC. Choice of: Bailey, Strong, and Elwyn, *Textbook of Histology*; Bremer, *Textbook of Histology*; Jordan, *A Textbook of Histology*; Maxinow, *Textbook of Histology*.

BACTERIOLOGY. Gay, et al, *Agents of Disease and Host Resistance*, \$10.00. For reference: Appleton, *Bacterial Infection*.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$6.50.

DENTISTRY

Anatomy, oral. Diamond, *Dental Anatomy*, \$3.50.

Crown and bridge. Mimeographed notes furnished by the Department.

Dental jurisprudence. Brothers, *Dental Jurisprudence*.

Histology, oral. Bodecker, *Fundamentals of Dental Histology and Embryology*, \$4.50.

Hygiene, oral. Fones, *Mouth Hygiene*, \$5.00, or Fones, *Preventive Dentistry*, \$2.50. Mimeographed notes are also furnished by the Department.

Operative dentistry. Black, *Operative Dentistry*, Vols. I and II, \$12.00. Mimeographed notes are also furnished by the Department.

Physical properties of dental materials. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

Practice of Medicine. Suggested but not required: Cecil, *Textbook of Medicine*.

Prosthetic dentistry. Recommended but not required: Frahm, *Principles and Technics of Full Denture Construction*; E. Kennedy, *Partial Denture Construction*; Nichols, *Prosthetic Dentistry*; Turner, *American Textbook of Prosthetic Dentistry*; Wilson, *Dental Prosthetics*.

Radiography. Recommended but not required: Ennis, *Dental Roentgenology*, \$6.00.

Surgery, oral. Berger, *Principles and Technique of Oral Surgery*, \$7.00; Blair and Ivy, *Essentials of Oral Surgery*; De Costa, *General Surgery*; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Scudder, *Tumors of the Jaws*, \$10.00.

NEURO-ANATOMY. Choice of: Bailey, *Histology*, 6th or 7th edition; Ranson, *Anatomy of the Nervous System*; Strong, *Neuro-Anatomy*, \$1.50.

PATHOLOGY. McCallum, *Pathology*.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Cushny, *Pharmacology and Therapeutics*, \$6.50; Sollmann, *Manual of Pharmacology*, \$7.50.

PHYSIOLOGY. Starling, *Human Physiology*.

PSYCHIATRY. White, *Introduction to the Study of the Mind*, \$2.00.

PUBLIC HEALTH. Not required, but recommended for supplementary reading: Moore, *Public Health in the United States*; Park, *Public Health and Hygiene*; Price, *Public Health and Hygiene*; Rosenau, *Preventive Medicine*.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.00; Gould, *The Student's Medical Dictionary*, \$2.00; Stedman, *Medical Dictionary*, \$7.00.

CONDENSED ACADEMIC CALENDAR

FOR OTHER DATES REFER TO THE REGULAR ACADEMIC CALENDAR

1935

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)

FOR THE WINTER SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee of \$6.00.

September 23 Monday, to September 25, Wednesday. For dental students.

September 26 Thursday. Classes begin.

October 12 Saturday. Columbus Day. Not a University holiday.

October 15 Tuesday. Stated meeting of University Council.

November 5 Tuesday. Election day. Holiday.

November 28 Thursday. Thanksgiving. Holiday.

December 13 Friday. Second Trimester begins.

December 17 Tuesday. Stated meeting of University Council.

December 23 Monday to

1936

January 5 Sunday, inclusive. Christmas holidays.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)

FOR THE SPRING SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee of \$6.00.

February 1 Saturday, to February 4, Tuesday. For dental students.

February 12 Wednesday. Alumni Day. Not a University holiday.

February 18 Tuesday. Stated meeting of University Council.

February 22 Saturday. Washington's Birthday. Holiday.

March 14 Saturday. Third Trimester begins.

April 6 Monday, to April 11, Saturday, inclusive. Easter holidays.

April 15 Wednesday. Last day for filing application or renewal of application for degree of D.D.S. or for certificate to be conferred in June. The privilege of later application may be granted on payment of a fee of \$6.00.

April 21 Tuesday. Stated meeting of University Council.

May 18 Monday. Final examinations for seniors begin.

May 30 Saturday. Memorial Day. Holiday.

COMMENCEMENT, MAY 31 TO JUNE 3

May 31 Sunday. Baccalaureate Service.

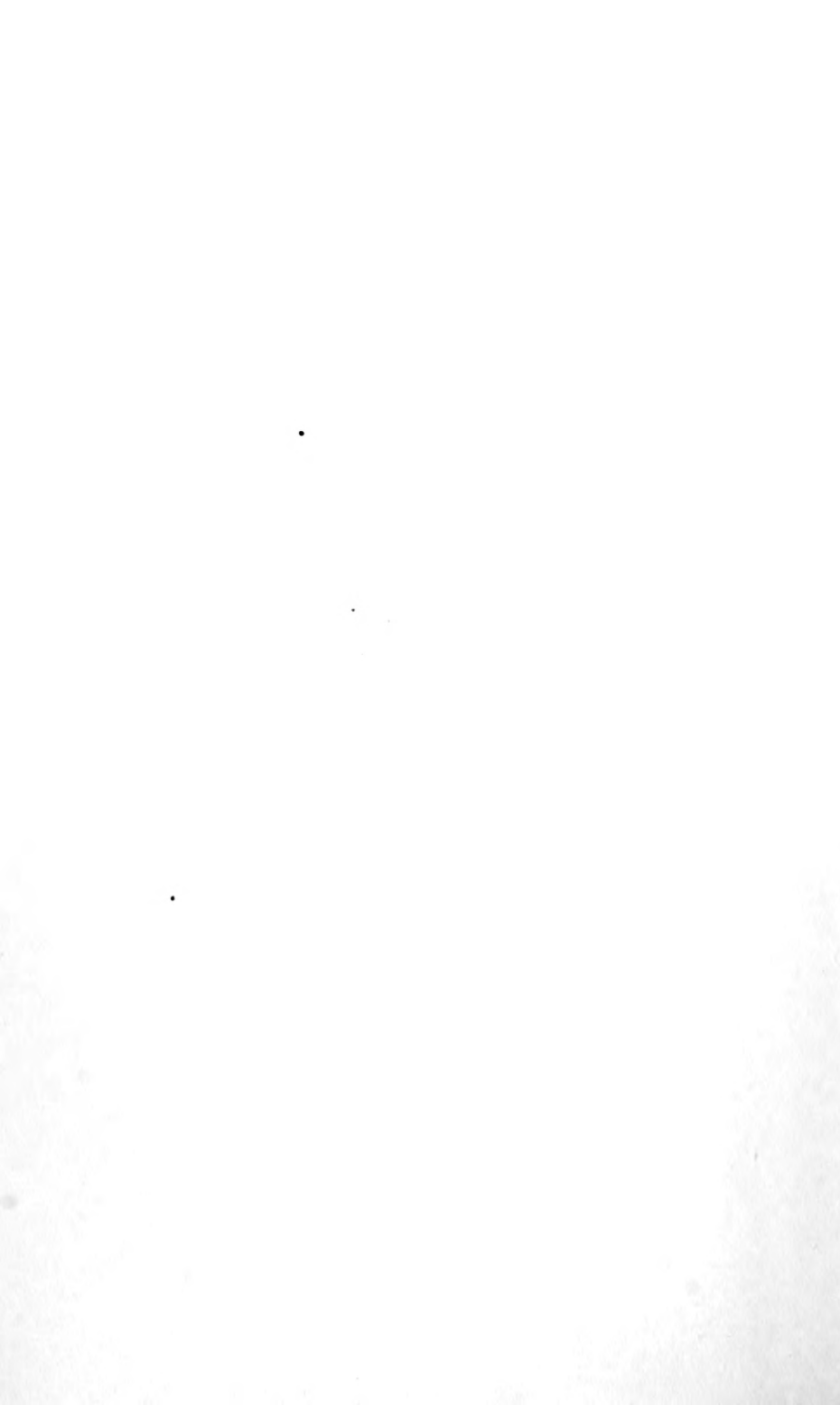
June 2 Tuesday. Conferring of degrees.

June 6 Saturday. Last day of classes for freshmen, sophomores, and juniors.

June 8 Monday. Final examinations for freshmen, sophomores, and juniors begin.

July 6 Monday to July 11, Saturday. Reexamination for deficient dental students.

August 1 Saturday. Last day for filing applications or for renewal of application for the degree of D.D.S. to be awarded in August.





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Columbia University

BULLETIN OF INFORMATION

Thirty-sixth Series, No. 47

August 22, 1936

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1936-1937



630 WEST 168TH STREET
NEW YORK

Columbia University Bulletin of Information

Thirty-sixth Series, No. 47

August 22, 1936

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1. Reports of the President and Treasurer to the Trustees.
 2. The Catalogue Number, Directory Number, and the Announcements of the several Colleges and Schools and Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent without charge upon application to the Secretary of the University.
- C.U.P. 6,000—1936.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to The School of Dental and Oral Surgery, 630 West 168th Street; telephone Wadsworth 3-2500.

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Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1936-1937



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS OF THE FACULTY

NICHOLAS MURRAY BUTLER, LL.D. (Cantab.), D.Litt. (Oxon.), Hon.D. (Paris)
President of the University
WILLARD COLE RAPPLEYE, A.M., M.D. *Dean*
HOUGHTON HOLLIDAY, A.B., D.D.S. *Associate Dean and Secretary of the Faculty*

FACULTY

ADOLPH BERGER	LEROY L. HARTMAN
CHARLES F. BODECKER	MILO HELLMAN
HANS T. CLARKE	HOUGHTON HOLLIDAY
WILLIAM H. CRAWFORD	ANNA V. HUGHES
SAMUEL R. DETWILER	JAMES W. JOBLING
HENRY S. DUNNING	HAROLD J. LEONARD
WILLIAM B. DUNNING	CHARLES C. LIEB
FREDERICK P. GAY	WILLARD C. RAPPLEYE
HENRY W. GILLET	LEUMAN M. WAUGH
HORATIO B. WILLIAMS	

OFFICERS OF INSTRUCTION

EMERIC ANGELUS *Assistant in Dentistry*
D.D.S., Columbia, 1931. [Operative]
EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922. [Oral Histology]
HOWARD T. APPLEGATE *Assistant in Dentistry*
D.D.S., New York College of Dentistry, 1919. [Hospital Dentistry]
WILLIAM WELLS BAADÉ *Assistant in Dentistry*
D.D.S., Minnesota, 1921. [Hospital Dentistry]
HENRY ULYSSES BARBER, JR. *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1916. [Orthodontia]
HENRY ARTHUR BARTELS *Assistant Professor of Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927. [Oral Pathology]
WALTER REGINALD BEAVEN *Instructor in Pharmacology*
D.D.S., Columbia, 1926.
ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon,
Presbyterian Hospital.

- SAMUEL BIRENBACH *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Surgery]
Visiting Oral Surgeon, Morrisania Hospital.
- OLON NATHANIEL BLACKBERG *Instructor in Pharmacology*
D.V.M., Cornell, 1918; B.S., Texas Agricultural and Mechanical, 1926; Ph.D., Tulane, 1928.
- CHARLES FRANCIS BODECKER *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Oral Histology]
- RICHARD M. BRICKNER *Assistant Professor of Neurology*
B.S., Columbia, 1921; M.D., 1923.
- MAURICE BUCHBINDER *Associate Professor of Dentistry*
B.S., College of the City of New York, 1917; D.D.S., Columbia, 1925. [Operative]
- LESTER RICHARD CAHN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Pathology]
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE SAMUEL CALLAWAY *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1923. [Orthodontia]
Attending Orthodontist, Fifth Avenue Hospital, Polyclinic Hospital.
- RUSSELL LEGRAND CARPENTER *Assistant Professor of Anatomy*
B.S., Tufts, 1924; Ph.D., Harvard, 1928.
- KENNETH FULTON CHASE *Instructor in Dentistry*
D.M.D., Tufts, 1928. [Oral Surgery]
Attending Dental Surgeon, New York Eye and Ear Infirmary;
Clinical Assistant, Roosevelt Hospital.
- HANS THACHER CLARKE *Professor of Biological Chemistry*
B.Sc., London, 1908; D.Sc., 1913.
Consultant in Biological Chemistry, Presbyterian Hospital.
- J. FRANCES COBBAN *Special Lecturer in Dentistry*
R.N., New York Hospital, 1906. [Courses for Oral Hygienists]
- KENNETH STEWART COLE *Assistant Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Assistant Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- WILLIAM HOPKINS CRAWFORD *Professor of Dentistry*
D.D.S., Minnesota, 1923. [Prosthetics]
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (Hon.), 1931.
Consultant in Anatomy, Presbyterian Hospital.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914. [Oral Anatomy]
- LOUIS BASIL DOTTI *Instructor in Physiology*
B.S., Columbia, 1929; A.M., 1931.
- WALTER F. DUGGAN *Instructor in Physiology*
A.B., Columbia, 1923; A.M., 1925; M.D., 1927.

- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; [Oral Surgery]
B.S., New York University, 1915.
Attending Oral Surgeon, Presbyterian, Sloane, Babies, and Fifth Avenue Hospitals, and Vanderbilt Clinic; Consulting Oral Surgeon, Knickerbocker, Nassau, Roosevelt, St. Vincent's, St. Luke's, Mary Immaculate, Jamaica, State Reconstruction, West Haverstraw, United Port Chester, North Hudson, Meadowbrook, and Hackensack General Hospitals, and Hospital for Ruptured and Crippled.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895. [Periodontia]
Director of the Department of Dentistry, New York Orthopaedic Dispensary and Hospital.
- ADOLPH ELWYN *Associate Professor of Neurology*
B.S., Columbia, 1915; A.M., 1917.
- JACOB ERDREICH *Assistant in Dentistry*
D.M.D., Tufts, 1931. [Oral Anatomy]
- ABRAHAM FIRESTONE *Instructor in Anatomy*
A.B., College of the City of New York, 1920; M.D., Columbia, 1924.
Assistant Urologist, Mount Sinai Hospital.
- GENEVIEVE FOLEY *Assistant in Bacteriology*
A.B., Simmons, 1929; A.M., Columbia, 1932.
- JOSEPH OCTAVIUS FOURNIER *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1913. [Oral Diagnosis]
Dental Consultant, Marine Hospital, U. S. Public Health Service.
- HARRY ALLEN GALTON *Assistant in Dentistry*
D.D.S., Columbia, 1932. [Orthodontia]
- FREDERICK PARKER GAY *Professor of Bacteriology*
A.B., Harvard, 1897; M.D., Johns Hopkins, 1901; Sc.D., George Washington, 1932.
Bacteriologist, Presbyterian Hospital.
- HENRY WEBSTER GILLET *Professor of Dentistry*
D.M.D., Harvard, 1885. [Prosthetics]
- ISIDORE H. GOLDBERGER *Special Lecturer in Dentistry*
M.D., New York University and Bellevue Hospital [Courses for Oral Hygienists]
Medical College, 1910.
Assistant Clinical Professor of Pediatrics, New York University and Bellevue Hospital Medical College; Assistant Director of Health Education, Board of Education, New York City; Attending Pediatricist, Willard Parker Hospital; Associate Attending Pediatricist, Home for Hebrew Infants; Consulting Pediatricist, Morrisania General Hospital.
- LEO JOSEPH HAHN *Instructor in Physiology*
Ph.D., Yale, 1914; M.D., 1918.
- LEROY LEO HARTMAN *Professor of Dentistry*
D.D.S., Northwestern, 1913; Sc.D., 1936. [Operative]
Attending Dental Surgeon, Presbyterian Hospital.
- MILO HELLMAN *Professor of Dentistry*
D.D.S., Pennsylvania, 1905; Sc.D., 1933. [Orthodontic Research]
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902. [Periodontia]
Chief, Periodontia Department, Beth Israel Hospital; Attending Dental Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint Diseases.

- HOUGHTON HOLLIDAY *Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917. [Radiology]
Assistant Attending Dental Surgeon, Presbyterian Hospital.
- KATHERINE FLORENCE HOLLIS *Instructor in Dentistry*
Certificate in Oral Hygiene, Columbia, 1921. [Courses for Oral Hygienists]
- RUSSELL L. HOLMAN *Instructor in Pathology*
A.B., Washington, 1927; M.D., Vanderbilt, 1931.
Junior Assistant Pathologist, Presbyterian Hospital.
- EARLE BANKS HOYT *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1918. [Prosthetics]
- ANNA VERONICA HUGHES *Professor of Dentistry*
D.M.D., Tufts, 1909. [Courses for Oral Hygienists]
Director of Courses for Oral Hygienists.
- MELVILLE HUMBERT *Instructor in Pharmacology*
A.B., Columbia, 1923; B.S., 1924; D.D.S., 1926.
- IRVIN L. HUNT, JR. *Instructor in Dentistry*
D.D.S., Pennsylvania, 1929. [Operative]
- JAMES WESLEY JOBLING *Professor of Pathology*
M.D., Tennessee Medical, 1897.
Pathological Director, Presbyterian Hospital; Consulting Pathologist, Sloane Hospital.
- MAXWELL KARSHAN *Associate Professor of Biological Chemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- EUGENE J. KELLY *Instructor in Dentistry*
D.D.S., Pennsylvania, 1928. [Orthodontia]
- HOMER D. KESTEN *Assistant Professor of Pathology*
B.S., Wisconsin, 1920; M.S., 1921; M.D., Columbia, 1924.
Assistant Attending Pathologist, Presbyterian Hospital.
- BARRY G. KING *Instructor in Physiology*
A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.
- SIDNEY J. KLEIN *Assistant in Bacteriology*
B.S., College of the City of New York, 1929; A.M., Columbia, 1930; Ph.D., 1933.
- CHARLES I. LAMBERT *Professor of Psychiatric Education in Teachers College*
B.S., Iowa, 1901; M.S. and M.D., 1903.
Attending Psychiatrist, Vanderbilt Clinic; Assistant Consultant, Presbyterian and Sloane Hospitals.
- WILLIAM MALBY LANCASTER *Assistant in Dentistry*
A.B. and D.D.S., Columbia, 1935. [Operative]
- HAROLD JUDSON LEONARD *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915. [Periodontia]
Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906.
Consultant in Pharmacology, Presbyterian and Mount Sinai Hospitals.
- GEORGE FRANK LINDIG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924. [Operative]

- JULIUS K. LITTMAN *Instructor in Anatomy*
M.D., Long Island College Hospital, 1926.
Assistant Adjunct in Surgery, Bronx Hospital.
- JOSEPHINE EMILY LUHAN *Assistant Professor of Dentistry*
D.D.S., New York College of Dental and [Courses for Oral Hygienists]
Oral Surgery, 1912.
- L. VOSBURGH LYONS *Instructor in Neurology*
M.D., Columbia, 1917.
Attending Neurologist, Neurological Institute, City Hospital, and Vanderbilt Clinic; Consulting
Neurologist, Englewood Hospital and State School for Boys, Warwick, N. Y.
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; M.D., 1921. [Children's Dentistry]
- FRANCIS STEPHEN McCAFFREY *Associate Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon,
Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Junior Oral Surgeon, Man-
hattan Eye, Ear, and Throat Hospital; Assistant Attending Oral Surgeon, Vanderbilt Clinic;
Consulting Oral Surgeon, Manhattan State Hospital.
- MORELL DION MCKENZIE *Instructor in Dentistry*
D.D.S., Minnesota, 1917. [Prosthetics]
- DONALD JOHN W. McLAUGHLIN *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1926. [Prosthetics]
- JOSEPH L. MCSWEENEY *Assistant in Dentistry*
D.D.S., Tennessee, 1920. [Oral Surgery]
Visiting Dental Surgeon, St. Vincent's Hospital.
- HENRY MILCH *Instructor in Anatomy*
A.B., Columbia, 1916; M.D., 1916.
Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct
Surgeon, Riverside Hospital.
- MILTON R. MILLER *Instructor in Dentistry*
B.S., Columbia, 1928; D.D.S., 1930. [Operative]
- WILLIAM MILLER *Assistant in Dentistry*
B.S., Columbia, 1929; D.D.S., 1931. [Operative]
- LOIS COFFEY MOSSMAN *Associate Professor of Education in Teachers College*
B.S., Columbia, 1911; A.M., 1920; Ph.D., 1924. [Courses for Oral Hygienists]
- EDWARD GERALD MURPHY *Assistant Professor of Dentistry*
D.D.S., Michigan, 1924. [Orthodontia]
- ROBERT W. NORTHROP *Instructor in Dentistry*
D.D.S., Michigan, 1928. [Oral Surgery]
- ARMAND M. OPPENHEIMER *Special Lecturer in Dentistry*
[Orthodontia]
A.B., College of the City of New York, 1926; B.S., Columbia, 1927; D.D.S., 1929.
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914. [Oral Surgery]
Assistant Attending Oral Surgeon, Babies Hospital and Vanderbilt Clinic;
Instructor in Surgery, College of Physicians and Surgeons; Consultant in Oral Surgery, Swedish,
Vassar, and Grasslands Hospitals.

- HORACE O. PARRACK *Research Assistant in Physiology*
A.B., West Virginia, 1929; A.M., Columbia, 1932.
- HENRY JOSEPH POWELL *Assistant in Dentistry*
B.S., Manhattan, 1928; D.D.S., Columbia, 1931. [Oral Diagnosis]
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
D.D.S., Marion Sims Dental College, 1903. [Prosthetics]
- WILLARD COLE RAPPLEYE *Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (Hon.), Yale, 1922.
- FRANK ELMER RIAN *Instructor in Dentistry*
D.D.S., Buffalo, 1905. [Orthodontia]
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1929; [Children's Dentistry]
D.D.S., Columbia, 1930.
- BENJAMIN SALZER *Instructor in Neurology*
M.D., Zurich, 1911.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
D.D.S., 1922.
Oral Surgeon, O.P.D., Mount Sinai and German Polyclinic Hospitals; Attending Oral Surgeon,
Jewish Memorial Hospital; Associate Attending Dental Surgeon, Presbyterian Hospital.
- ALEITA H. SCOTT *Assistant Professor of Physiology*
A.B., Hunter, 1912; Ph.D., Columbia, 1923.
- ERNEST LYMAN SCOTT *Associate Professor of Physiology*
B.S., Ohio Wesleyan, 1902; M.S., Chicago, 1911; Ph.D., Columbia, 1914.
- ALBIN ROBERT SEIDEL *Instructor in Dentistry*
D.M.D., Tufts, 1927. [Oral Surgery]
Assistant Director of Dental Service and Associate Attending Dental
Surgeon, Presbyterian Hospital.
- EDWARD B. SELF *Assistant in Pathology*
A.B., Yale, 1932; M.D., Columbia, 1936.
Intern in Pathology, Presbyterian Hospital.
- AURA EDWARD SEVERINGHAUS *Assistant Professor of Anatomy*
B.S., Columbia, 1917; A.M., 1920; Ph.D., 1929.
- HARRY H. SHAPIRO *Instructor in Anatomy*
D.M.D., Tufts, 1918.
Attending Dentist, Cornwall Hospital.
- GILBERT PERCIVAL SMITH *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Cornell, 1908; M.S., 1910; Ph.D., 1912.
Associate Consultant in Anatomy, Presbyterian Hospital.

- IRVING J. SPERBER *Special Lecturer in Dentistry*
D.D.S., New York College of Dentistry, 1918.
- MICHAEL RUSSELL STEIN *Research Assistant in Dentistry*
D.D.S., New York University, 1927. [Oral Histology]
- ELIAS L. STERN *Instructor in Anatomy*
B.S., Columbia, 1920; M.D., 1922.
Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.
- FERDINAND A. STEWART, JR. *Instructor in Dentistry*
A.B., Pennsylvania, 1921; D.D.S., 1924 [Oral Surgery]
- LEWIS RIDDELL STOWE *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1916 [Children's Dentistry]
Assistant Attending Dental Surgeon, Presbyterian Hospital;
Consultant in Dental and Oral Surgery, Neurological Institute.
- OLIVER SMITH STRONG *Professor of Neurology and Neurohistology*
A.B., Princeton, 1886; A.M., Columbia, 1892; Ph.D., 1895.
Consultant in Neuropathology, Vanderbilt Clinic.
- HARRY STRUSSER *Special Lecturer in Dentistry*
D.D.S., New York University, 1918.
- JOSEPH K. SURLS *Special Lecturer in Dentistry*
A.B., Williams, 1913; M.D., Harvard, 1917. [Courses for Oral Hygienists]
- ARTHUR CRANSTON TOTTEN *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1926. [Orthodontia]
- MILTON SCOTT TUCKER *Instructor in Dentistry*
L.D.S. and D.D.S., Royal College of Dental Surgeons, Toronto, 1928. [Orthodontia]
- GENEVA HASTINGS WALLS *Instructor in Dentistry*
Dental Hygiene Diploma, Forsyth Dental Infirmary, 1917. [Courses for Oral Hygienists]
- LEUMAN MAURICE WAUGH *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Orthodontia]
Consultant in Orthodontia, New York Orthopaedic Dispensary and
Hospital and New York Infirmary for Women and Children.
- HORATIO BURT WILLIAMS *Dalton Professor of Physiology*
A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
Consultant in Physiology, Presbyterian Hospital; Consulting Physician, Greenwich Hospital.
- HAROLD S. WOODRUFF *Instructor in Dentistry*
D.D.S., Minnesota, 1918. [Prosthetics]
- HARRY ALLEN YOUNG *Assistant Professor of Dentistry*
D.D.S., Indiana, 1919. [Prosthetics]
- MORRIS A. ZIMMER *Instructor in Dentistry*
D.D.S., New York University, 1918. [Oral Surgery]
Attending Dental Surgeon, Beth Israel Hospital, Newark, N. J.
- DANIEL E. ZISKIN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1917. [Oral Diagnosis]
Assistant Attending Dental Surgeon, Presbyterian Hospital.
- RAYMUND L. ZWEMER *Assistant Professor of Anatomy*
A.B., Hope, 1923; Ph.D., Yale, 1926.

CLINICAL ASSISTANTS

RALPH BECKER, B.S., D.D.S.	CLIFFORD JOHNSON, D.M.D.
FRANK E. BEUBE, D.D.S.	HAROLD KILPATRICK, D.D.S.
DONALD McL. BISHOP, D.M.D.	JESSE L. LEFCOURT, B.S., D.D.S.
CHARLES R. BUSHONG, A.B., D.D.S.	WILLIAM LEFKOWITZ, D.D.S.
ROSE COHEN, D.D.S.	EUNICE LEMAY, D.M.D.
ROBERT M. DEVINE, B.S., D.D.S.	SIDNEY E. RIESNER, D.D.S.
SAMUEL B. DRELLICH, D.D.S.	HERBERT F. SILVERS, B.S., D.D.S.
E. R. GRAINGER, D.D.S.	JACOB M. ZINNER, D.D.S.
WARREN S. HOUSTON, D.D.S.	

PRESBYTERIAN HOSPITAL DENTAL SERVICE

HAROLD J. LEONARD, B.S., D.D.S., *Director*ALBIN R. SEIDEL, D.M.D., *Assistant Director**Attending Dental Surgeons*

ADOLPH BERGER, D.D.S.	ISADOR HIRSCHFELD, D.D.S.
LEROY L. HARTMAN, D.D.S.	HAROLD J. LEONARD, B.S., D.D.S.
FRANCIS S. McCaffrey, B.S., D.D.S.	

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	JOSEPH SCHROFF, B.S., M.D., D.D.S.
ALBIN R. SEIDEL, D.M.D.	

Assisting Attending Dental Surgeons

HOWARD T. APPLEGATE, D.D.S.	JOHN F. RALSTON, D.D.S.
WILLIAM W. BAADÉ, D.D.S.	LEWIS R. STOWE, D.D.S.
HOUGHTON HOLLIDAY, A.B., D.D.S.	DANIEL E. ZISKIN, D.D.S.

Interns

WILLIAM J. SAVOY, D.D.S.	THEODORE R. PARKER, D.M.D.
--------------------------	----------------------------

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S., *Attending Oral Surgeon*

COMMITTEES

Administration

Dean RAPPLEYE, *Chairman*, Professors BODECKER, CRAWFORD, H. S. DUNNING,
HARTMAN, HOLLIDAY, LEONARD, and WAUGH

Curriculum

Professor HOLLIDAY, *Chairman*, Professors BERGER, BODECKER, HARTMAN, KARSHAN,
LEONARD, LIEB, and RICHTER

Library

Professor HOLLIDAY, *School of Dental and Oral Surgery Representative*

Extension and Graduate Courses

Professor WAUGH, *Chairman*, Professors BERGER, CAHN, and CRAWFORD

Research

Professor BODECKER, *Chairman*, Professors BERGER, CAHN, CRAWFORD,
DIAMOND, HELLMAN, and ZISKIN

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Acting Director of University Admissions</i>
CHARLES C. WILLIAMSON, Ph.D., Litt.D.	<i>Director of University Libraries</i>
ROGER HOWSON, A.M.	<i>Librarian</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Superintendent of Buildings and Grounds</i>
REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. MCCASTLINE, M.D.	<i>University Medical Officer</i>
HERBERT B. HOWE, A.M.	<i>Director of Men's Residence Halls</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.B.	<i>Alumni Secretary</i>

SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work; but in 1784 it was reopened as Columbia College. In 1912, the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center where it occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The College of Physicians and Surgeons in which the fundamental medical science subjects are given adjoins it, the halls of the two being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course of dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental departments of the College of Physicians and Surgeons.

STUDENTS

A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a nonmatriculated student with permission to attend such courses of instruction as he is qualified to take but not as a candidate for a degree, certificate, or diploma in regular course. Nonmatriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Nonmatriculated students may receive formal statement of the satisfactory completion of any course.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and subject to the reserve powers of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Diplomas are issued at Commencement, in October and February (in the case of the A.M. degree, at Commencement, in December and February, or, in the case of the Ph.D., Med.Sc.D., Jur.Sc.D., and Ed.D. degrees, upon completion of the requirements; also in August for the D.D.S. degree, and the B.S. degree in optometry).

An application for a degree or certificate, other than the Ph.D., Med.Sc.D., Jur.Sc.D., or Ed.D. degrees terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar on the last pages of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the Uni-

versity; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing are required to notify the Registrar immediately.

The Dean of the school or faculty concerned, may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions under which the departments of instruction are grouped, may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 61,500 volumes and about 33,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center and is open to students from 9 a.m. to 10 p.m., on week days. This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, and teachers of the combined schools and Presbyterian Hospital Unit. It has a seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received 550 current journals, and nearby will be shelved the bound volumes of the most important journals covering a period of approximately ten years. In addition, the more important reference works, the systems of medicine and surgery, some of the German *Handbücher*, and other bibliographical tools will be available for intensive research work.

The book collections are systematically arranged under the Library of Congress classification, and the serials shelved in a strictly alphabetical order, so as to insure quick service and prompt delivery over the loan desk.

The dictionary catalogue in the lobby, with its author, subject, and title entries, should be freely consulted as a guide and index to the subject matter in the combined collections of the library.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University dormitories at Morningside Heights, and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collec-

tions on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry, and supplement the special collections available in the College of Physicians and Surgeons, and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Gymnasium. The Gymnasium is situated on Morningside Heights, and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education who is assisted by a corps of able instructors.

Employment. The Appointments Office located in Alumni House is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is being operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

The University Medical Officer, DR. W. H. McCastline, has direct supervision of all matters affecting the health of the student body. All cases of illness, especially communicable diseases, should be reported to him promptly. The Medical Officer and the members of his staff hold office hours daily in Earl Hall for the medical care of students and members of the staff.

RESIDENCE HALLS

All students registered within the University regularly pursuing their courses of study are eligible for residence in University Residence Halls. The University desires

its students to live whenever possible in the Residence Halls which are a part of the educational development and life of Morningside Heights. These Halls, owned and controlled by the University, are located on or immediately adjacent to the Campus, afford easy access to library and laboratories, and should provide for students companionship with persons of like interest. Within several of the Residence Halls and in the University Commons, dining rooms are maintained by the University and administered by skilled dietitians. Infirmaries are maintained for the exclusive use of students in the Residence Halls. Assignment of room is made on the academic year basis but rentals may be paid on session, monthly, or in case of need, weekly basis.

Application blanks for rooms and copies of Residence Halls Announcements, giving floor plans and dormitory regulations, will be furnished on request by the Secretary of the University, 213 Low Memorial Library.

Residence for Men

The office of the Director of Men's Residence Halls is 125 Livingston Hall. The four Residence Halls for men are located on South Quadrangle with accommodations for approximately 1,350 men. Hartley Hall and the fifth, sixth, and seventh floors of John Jay Hall are reserved primarily for the undergraduate students of Columbia College. Furnald Hall is primarily reserved for law students while Livingston Hall and the eighth to the fifteenth floors of John Jay Hall are for graduate and professional school students.

Adequate restaurant facilities are provided in John Jay Hall and a combination room and board rate is offered to all residents.

Room fees for the academic year range from \$130 to \$234. The lower-priced rooms are assigned as scholarship awards by special application to the Secretary of Appointments.

The University infirmary for men is located on the top floor of John Jay Hall. The services of the infirmary are exclusively available to residents of the dormitories.

Residence for Women

Graduate and professional women within the University live in Johnson Hall. The Hall was erected and particularly designed for the comfort and convenience of women students. With its ample social rooms and attractive dining room and bedrooms, it offers conditions enabling students to gain the greatest benefit from University life. Attention is called to the table of estimated expenses on page 23 of this Announcement.

The University infirmary for women is located on the top floor of Johnson Hall. The services of the infirmary are exclusively available to residents of the dormitories.

Residence in Barnard College and Teachers College

Barnard College maintains dormitories for undergraduate women. When space is available graduate women, particularly when graduates of Barnard College, will be received in residence. Dining facilities are provided for students in Barnard College.

Teachers College maintains five Residence Halls. In Whittier Hall rooms and dining facilities are offered for women students. In Seth Low Hall rooms without dining facilities are offered women students. Bancroft Hall, Grant Hall, and Sarasota Hall contain apartments in which housekeeping can be carried on and which are especially adapted for the use of married students.

RESIDENCE BUREAU

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the University Residence Bureau in Alumni House.

KING'S CROWN HOTEL

The King's Crown Hotel, located at 420 West 116th Street, in close proximity to the University, is owned by the University and operated by the Knott Hotels Corporation. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main floor, reached by the Campus entrance, are the offices of the three Religious Counselors. On the upper floor are the offices of the Chaplain of the University and his staff. An auditorium seating 300 people is used by the Department of English and Comparative Literature for dramatic composition and production. The lower floor, entered from Broadway, is occupied by the office of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch in Room B-441 of the College of Physicians and Surgeons. In addition to medical and dental textbooks the store carries a stock of new and used microscopes, laboratory equipment and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6:30 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services, with substantial savings to Columbia students.

REQUIREMENTS FOR ADMISSION, PROMOTION, AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application by March 1 in order

to be passed upon by the Committee on Admissions at an early date. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is attendance for three full years at an acceptable college of arts and sciences, which must include successful completion of ninety-four points as rated by Columbia College, and of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

English composition and literature, 6 semester hours.

Physics, 6 semester hours.

Biology, 6 semester hours.

Chemistry (including an approved course in organic chemistry), 12 semester hours.

Inasmuch as an understanding of the medical sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary and so difficult to attain in later years.

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected.

Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

In order that the best selections may be made from among the candidates who are eligible for admission, all such applicants will be requested to report at the Dean's office for a personal interview some time prior to the final action of the Committee on Admissions. Those who remain on the eligible list after a personal interview will be given an examination as to mechanical ability and manual dexterity. This test will be given at various times during the year. It will consist of exercises in mechanical and free-hand drawing, metal filing, and molding in plastic material, and will be conducted by the technic teachers in the School.

Fee on Acceptance. A fee of \$50 is payable by the applicant within ten days of his

receipt of notice that he has been accepted for admission. A check to the order of Columbia University should be returned by the accepted applicant with notice that he intends to matriculate. If the applicant registers within the prescribed registration dates in September, this fee will be credited on his tuition account. If he fails to register the fee lapses and will be used by the University to meet the cost of its administrative and overhead charges in caring for applicants who do not finally register.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work.

No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Course in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

Admission to Advanced Standing. Students will not be admitted to advanced standing upon examination, but only upon a satisfactory record from their school of previous residence. Provided they are eligible for the dental student qualifying certificate required by the New York State Department of Education and can submit evidence of the satisfactory completion of the entrance requirements of this school, candidates who have completed, without condition, one or two years of study in a dental school registered in the state of New York including courses equivalent to those given at this school are eligible to apply for admission to the second or third years, respectively. Students applying for admission to the third year must have passed the partial examination of the New York State Board of Dental Examiners.

Owing to the lack of uniformity in the arrangement of the first and second year curricula in the various dental schools a transfer usually can be accomplished with the least adjustment at the end of the second year.

Application blanks may be obtained from the Dean's office.

SUMMER SESSION

No regular courses will be offered during the Summer Session of 1936. Students who have successfully completed all the requirements of the third year may elect work in clinical practice, without credit, from June 15 to August 1, 1936, subject to the approval of the departments concerned.

Students having deficiencies in technical or clinical courses must register for those courses by June 15, 1936. Fees will be charged on the basis of \$10 per trimester credit.

COURSES FOR ORAL HYGIENISTS

The courses in oral hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, will arrange courses in the various divisions of dentistry at the request of groups of practitioners whenever the undergraduate teaching schedule will permit. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below.

The requirements for admission shall be graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country and the applicant must be a member in good standing of his national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency shall include not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery.

The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTIA FOR GRADUATES

An organized twelve-month course has been given since 1927 to qualified graduates in dentistry who wish to prepare for specialization in orthodontia. Admis-

sion requirements include graduation from an acceptable school of dentistry, and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Director of the Division of Orthodontia or the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as qualification for admission. For information regarding the curricula leading to the Master of Arts or the Doctor of Philosophy degrees under these Faculties see the Graduate Announcement.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar, and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar found at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$6.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed by statute:

(a) University Fee

(1) For each Winter or Spring Session or any part thereof:

For students enrolled for more than six points	\$10.00
For students enrolled for six points or less	\$5.00

(2) For each Summer Session or any part thereof \$7.00

(b) Tuition Fee

I. For all courses, other than pre-collegiate or noncredit courses in University

Extension, per point, except in cases where a special fee is fixed	\$12.50
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With the proviso:

That the minimum fee for a Winter or Spring Session in the case of a student enrolled for the full course in the School of Medicine or in the School of Dental and Oral Surgery shall be not less than \$250.00
 That the minimum fee for a Winter or Spring Session in the case of a student enrolled for fifteen points or more in courses for oral hygienists shall be \$190.00

II. For pre-collegiate or noncredit courses in University Extension, per point \$10.00

(c) Fee for Application

For any degree \$20.00
 For any certificate \$10.00

(d) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations \$6.00
2. Deficiency and special examinations \$3.00
3. Renewal of application for any degree or certificate \$1.00

The conditions under which such privileges shall be granted are to be determined by the Registrar with the approval of the President.

(e) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a deficiency or a special examination, or for a degree, without the payment of an additional fee, see the Academic Calendar. An examination to remove a deficiency in a course, or an examination at an unusual time, involves the payment of a fee.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals, beyond this allowance; and service in washing apparatus, or work by a mechanic. A deposit of \$25 will be required in the School of Dental and Oral Surgery each year to cover material and breakage in the laboratories; for each Summer Session, \$10.

Instruments. Each student is required to supply himself with a microscope of a satisfactory type and instruments as specified in the official instrument list. The

purchase from the University of microscopes and instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. Dental engines and instrument cases are rented from the School at the rate of \$25 for the academic year, payable in advance on registration in September.

Supplies. All technic material and regular supplies *must* be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the students' best interests.

Lockers. Each student will be assigned a locker on entering and will be required to supply himself with one combination lock as prescribed by the School. Locks are \$1.00 each.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

Following is an itemized estimate of the average expenses of a full-time student in the School of Dental and Oral Surgery for the academic year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are of course variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year, and can be accepted as applicable for the year 1936-1937 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$545	\$545
Room	180	144
Board	252	200
Books	30	20
Instruments (see below)	120	100
Laundry	40	28
	<hr/>	<hr/>
	\$1,167	\$1,037

The approximate cost of instruments for the four-year course is as follows: first year, \$115; second year, \$210; third year, \$130; fourth year, \$25. In addition, the microscope required at the beginning of the course will cost between \$60 and \$160. The cost of books will vary, depending upon the choice made from the selection offered. Instruments are payable at the opening of the school year.

Medical advice and treatment of minor ailments are rendered free of charge by the University Medical Officer.

EXAMINATIONS AND STANDING

Final examinations are held at the end of the course, and reexaminations for students with conditions are held within one month after the close of the regular academic year.

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, reexamination required; Inc, incomplete, completed work must be

submitted within the time limit set by the instructor. One reëxamination will be allowed in a course graded F; if the examination is passed the grade will be C.

No student will be recommended for the degree of Doctor of Dental Surgery until he has completed all the required practical work and passed satisfactory examinations in all the subjects of the entire course.

CONDITIONS FOR ADVANCEMENT

Advancement will be granted to such students as have received passing grades in all subjects.

A student who has failed in any one of his courses is not allowed to go on with his class until he has removed that failure to the satisfaction of the head of the department.

A student who has failed two courses in the first year may be allowed reëxamination in the failed courses provided that the failures do not comprise any two out of the three following courses: gross anatomy, physiology, and biological chemistry.

A student who has failed in two courses of the second, third, or fourth years may be allowed reëxamination in the two failed courses provided the failed subjects do not include operative dentistry, prosthetic dentistry, or crown and bridge work, and that the total hours of the two courses failed do not exceed one third of the total course hours for that year.

Students who receive conditions or failures amounting to one-third or more of the year's work must repeat the work of the entire year if allowed to reregister. A student may repeat an entire year only once during his dental course and may not repeat any other year later, unless the Faculty of the School votes to suspend this rule on recommendation of the class Faculty under which the student has been working.

The class Faculties have general supervision of students' work and the application of these regulations to individual cases.

The Faculty reserves the right to refuse readmission to any student who, upon recommendation of his class Faculty, is believed to be unsuited to the conditions of study and advancement in the School. The Faculty reserves the right to amend the schedule of studies from time to time at its discretion, without further notice.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character, and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York.

All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 per cent.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize to be known as the Ella Maria Ewell Medal will be awarded annually to that student of the School of Dental and Oral Surgery who may, in the judgment of the Faculty, be most proficient in some subject of dentistry. The branch of dentistry for which the award is made will be determined by the executors of the will of Glover C. Beckwith-Ewell.

OMICRON KAPPA UPSILON

Epsilon Epsilon Chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and especially character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to juniors and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF
DENTAL AND ORAL SURGERY

OFFICERS

President, MANUEL M. MASLANSKY, D.D.S.

Vice-President, BENJAMIN B. KAMRIN, D.D.S.

Secretary, JOHN J. MAYERS, D.D.S.

Treasurer, GEORGE TRATTNER, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to Board of Governors of Columbia Alumni Federation, Drs. JOSEPH SCHROFF, BENJAMIN B. KAMRIN, and RAYMOND M. BRISTOL.

Membership. Any graduate, former student, member of the Faculty, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

COURSE OF STUDIES

For purposes of instruction the work of each year is scheduled in three trimesters, which are designated as First, Second, and Third. The unit of credit used is the trimester credit, which signifies approximately three academic hours of work a week for one trimester. For classroom work this means one hour in class a week and an average of two hours of home work. For laboratory or clinical work requiring no outside study it represents three hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 200 are open to candidates for the degree of Doctor of Dental Surgery in the first and second years. Courses numbered from 200 upward are open to candidates for the Doctor of Dental Surgery in the third and fourth years, and to graduates in dentistry.

Following the completion of a certain proportion of the work of the fourth year, qualified students may choose electives with the consent of the head of the department and with permission of the class Faculty. Each elective listed has the value of one trimester credit, and requires one hour of class work or one laboratory session a week for one trimester.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

CURRICULUM

<i>Subject</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Sessions</i>	<i>Credits</i>	<i>Academic Hours</i>
FRESHMAN YEAR:				
Anatomy, gross	5	10	15	300
Anatomy, microscopic	4	4	8	160
Anatomy, neuro	2	2	4	80
Anatomy, oral	1	5	6	160
Biochemistry	4	4	8	160
Histology, oral . . . . .	. . .	2	2	60
Physiology	6	4	10	180
Prosthetics	1	1	1	40
			54	1,140
SOPHOMORE YEAR:				
Bacteriology	4	3	7	130
Crown and bridge . . . . .	. . .	3	3	90
Dental materials . . . . .	. . .	2	2	60
Hygiene, oral	2	. . .	2	20
Operative dentistry	1	8	9	250
Pathology	4	5	9	170
Pharmacology	4	2	6	100
Prophylaxis, oral . . . . .	. . .	1	1	30
Prosthetic dentistry	2	8	8	260
Psychopathology	1	. . .	1	10
Radiology	1	. . .	1	10
Surgery, oral	2	. . .	2	20
			51	1,150
JUNIOR YEAR:				
Anatomy	1	. . .	1	10
Bacteriology	1	. . .	1	10
Crown and bridge	1	7	8	220
Dental ethics	1	. . .	1	10
Diagnosis, oral	1	1	2	40
Hygiene, oral	1	. . .	1	10
Operative dentistry	2	10	12	320
Orthodontia	3	2	4	110
Pathology, oral	3	2	5	90
Periodontia . . . . .	. . .	1	1	30
Pharmacology, applied	1	. . .	1	10
Practice of medicine	2	. . .	2	20
Prosthetic dentistry	1	6	7	190
Radiology . . . . .	. . .	1	1	30
Round wire technic . . . . .	. . .	1	1	30
Surgery, oral	1	1	2	40
			50	1,170
SENIOR YEAR:				
Crown and bridge	1	6	7	190
Dental economics	1	. . .	1	10
Dental history and jurisprudence	1	. . .	1	10
Dentistry for children	1	3	4	100
Diagnosis, oral	2	1	3	50
Operative dentistry	1	11	12	340
Periodontia	2	1	2	50
Practice of medicine	4	1	5	70
Prophylaxis, clinical . . . . .	. . .	1	1	30
Prosthetic dentistry	2	6	8	200
Public health	1	. . .	1	10
Surgery, oral	7	1	3	100
Electives	1	2	3	70
			51	1,230

COURSES OF INSTRUCTION

ANATOMY

Anatomy 150F—Microscopic anatomy. Sixteen hours a week First Trimester. First year. 8 trimester credits. Professors P. E. SMITH, DETWILER, CARPENTER, COPENHAVER, SEVERINGHAUS, ZWEMER, and assistants.

Lectures, conferences, and laboratory.

This course is the same as the Medical School course *Anatomy 101F*.

Anatomy 151FS—Gross anatomy. A total of 300 hours First and Second Trimesters. First year. 15 trimester credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

Anatomy 252F—Anatomy of the head and neck. One hour of lecture and demonstration a week for one trimester. Third year. 1 trimester credit. Professor ROGERS and Dr. SHAPIRO.

A review course, with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151F—General medical bacteriology and immunology. Nine hours a week First Trimester. Second year. 3 trimester credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152F—Principles of epidemiology, infection, immunity, serum diagnosis, and therapy. Four hours a week First Trimester. Second year. 4 trimester credits. Professor GAY and staff.

Lectures given to the dental and medical students together.

Bacteriology 253T—Bacteriology and etiology of dental disease. One hour a week for one trimester. 1 trimester credit. Third year. Professor ROSEBURY.

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOLOGICAL CHEMISTRY

Biochemistry 150ST—Introductory biological chemistry. Two hours lecture and six hours laboratory a week Second and Third Trimesters. 8 trimester credits. Professor KARSHAN and assistants.

DENTISTRY

ORAL ANATOMY

Dentistry 101—Oral anatomy. A total of 160 hours. First year. 6 trimester credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the growth and development of the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

DENTISTRY FOR CHILDREN

Dentistry 202—Dentistry for children. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor McBEATH and assistants.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child patient and the application of present knowledge of preventive dentistry.

Dentistry 203—Dentistry for children clinic. Three hours a week for three trimesters. Fourth year. 3 trimester credits. Professor McBEATH and assistants.

Dentistry 204—Dentistry for children elective. Professor McBEATH.

A reading and conference course.

CROWN AND BRIDGE

Dentistry 105–205—Crown and bridge technic. A total of approximately 210 hours. 105—second year, 3 trimester credits; 205—third year, 4 trimester credits. Professors CRAWFORD and HOYT and assistants.

Laboratory work and lectures on the technical procedures in crown and bridge work.

Dentistry 206—Crown and bridge. One hour a week for one trimester. Third year. 1 trimester credit. Professor HOYT.

Lectures on the technical procedures of crown and bridge work.

Dentistry 207—Crown and bridge. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor CRAWFORD.

Conference course with outside reading on problems in crown and bridge work.

Dentistry 208a–208b—Crown and bridge clinic. A total of 270 hours. 208a—third year, 3 trimester credits; 208b—fourth year, 6 trimester credits. Professors CRAWFORD and HOYT and assistants.

Infirmiry practice and demonstrations in crown and bridge construction.

Dentistry 209a–209b—Crown and bridge electives. Professors HOYT and McLAUGHLIN.

209a. A conference and reading course.

209b. A technic course in porcelain jacket crown construction.

ORAL DIAGNOSIS

Dentistry 212—Oral diagnosis. One hour a week for three trimesters. Third and fourth years. 3 trimester credits. Professor ZISKIN.

Lecture and conference course in oral examination and charting, history taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal dysharmonies.

Dentistry 213a–213b—Oral diagnosis. A total of sixty hours. Third and fourth years. 2 trimester credits. Professor ZISKIN and clinical staff.

213a. Clinical practice and demonstrations in oral examination and charting, pulp testing, and dental X-ray diagnosis.

213b. Continuation of the above with additional work in history taking and the study of occlusal dysharmonies.

Dentistry 214—Oral diagnosis elective. Professor ZISKIN.

A clinical course in oral diagnosis.

ORAL HISTOLOGY

Dentistry 115—Oral histology and embryology. Three hours a week for two trimesters. First year. 2 trimester credits. Professors BODECKER and APPLEBAUM.

Lectures and laboratory work on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Dentistry 216—Oral histology and embryology elective. Professor BODECKER.

A laboratory course in oral histology.

ORAL HYGIENE AND PROPHYLAXIS

Dentistry 121—Oral hygiene and prophylaxis. Three hours a week for one trimester. Second year. 1 trimester credit. Professor HUGHES, Miss HOLLIS, and assistants.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

Dentistry 221—Oral hygiene and prophylaxis. Three hours a week for one trimester. Fourth year. 1 trimester credit. Professors LEONARD and HOLLIDAY.

Clinical dental prophylaxis.

PREVENTIVE DENTISTRY

Dentistry 122—Preventive dentistry. Two hours a week for one trimester. Second year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on the application of bacteriology, physiology, and biochemistry to preventive dentistry.

Dentistry 222—Community dentistry. One hour a week for one trimester. Third year. 1 trimester credit. Professor LEONARD.

Lectures and conferences on community dentistry.

Dentistry 224a-224b—Preventive dentistry elective. Professor LEONARD.

224a. A reading and conference course.

224b. A research course.

PHYSICAL PROPERTIES OF DENTAL MATERIALS

Dentistry 126—Physical properties of dental materials. Three hours a week for two trimesters. Second year. 2 trimester credits. Professor CRAWFORD.

Metallurgical processes and apparatus. Physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory work.

Dentistry 227—Physical properties of dental materials elective. Professor CRAWFORD.

A research course in dental materials.

OPERATIVE DENTISTRY

Dentistry 131—Operative dentistry technic. A total of 240 hours in three trimesters. Second year. 8 trimester credits. Professors HARTMAN, BUCHBINDER, LINDIG, Dr. HUNT, and assistants.

Lectures and laboratory work on operative instruments and materials, their care and uses, root canal technic and the technic of cavity preparations and fillings.

Dentistry 132—Operative dentistry. One hour a week for one trimester. Second year. Professor HARTMAN and assistants.

Lectures on laboratory procedure in operative dentistry.

Dentistry 233—Operative dentistry. One hour a week for two trimesters. Third year. 2 trimester credits. Professors HARTMAN and BUCHBINDER.

Lectures and conferences on operative dentistry procedures.

Dentistry 234a-234b—Operative dentistry clinic. A total of 630 hours. *234a*—third year, 10 trimester credits; *234b*—fourth year, 11 trimester credits. Professors HARTMAN, BUCHBINDER, LINDIG, Dr. HUNT, and assistants.

Clinical practice and demonstrations in operative dentistry.

Dentistry 235—Operative dentistry. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor HARTMAN.

Conference course on problems in operative dentistry.

Dentistry 239a-239b—Operative dentistry electives. Professors HARTMAN and LINDIG.

239a. A reading and conference course.

239b. A course in porcelain inlay technic.

ORTHODONTIA

Dentistry 241—Orthodontia. Sixty hours of laboratory work. Third year. 1 trimester credit. Professors BARBER, MURPHY, and Dr. GALTON.

Laboratory instruction in free-hand soldering, the fundamental technic of making appliances and space retainers.

Dentistry 242—Orthodontia. Two hours lecture a week for one trimester and a total of thirty hours of demonstrations in the clinic. Third year. 2 trimester credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, Drs. RIAN and TUCKER.

Orthodontic fundamentals with special emphasis on preventive malocclusion by early recognition and correction of the predisposing factors.

Dentistry 243a-243b—Orthodontia electives. Professor WAUGH.

243a. Clinical orthodontia.

243b. Orthodontic research.

ORAL PATHOLOGY

Dentistry 246—Oral pathology. One hour a week lecture for three trimesters. Three hours a week laboratory for two trimesters. Third year. 5 trimester credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Dentistry 247a–247b—Oral pathology electives. Professors CAHN and BARTELS.

247a. A laboratory course in oral pathology.

247b. A laboratory course in clinical pathology.

PERIODONTIA

Dentistry 251a–251b—Periodontia clinic. Sixty hours. 251a—third year; 251b—fourth year. 2 trimester credits. Professors W. B. DUNNING, LEONARD, HIRSCHFELD, and HOLLIDAY.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Dentistry 252a–252b—Periodontia. One hour a week for two trimesters. Fourth year. 1 trimester credit. Professors LEONARD and HIRSCHFELD.

252a. Lectures and conferences on the theory and practice of periodontia.

252b. Demonstrations of gingival symptoms.

Dentistry 253a–253b–253c—Periodontia electives. Professors LEONARD and HIRSCHFELD.

253a. A reading and conference course.

253b. A course in clinical periodontia.

253c. A course in periodontia research.

PROSTHETIC DENTISTRY

Dentistry 155a–155b—Prosthetic dentistry technic. A total of approximately 300 hours. 155a—first year, 1 trimester credit; 155b—second year, 8 trimester credits. Professor YOUNG and assistants.

Lectures and laboratory on the mechanics of denture construction.

Dentistry 256—Prosthetic dentistry. One hour a week for one trimester. Third year. 1 trimester credit. Professor CRAWFORD.

Lectures and conferences on materials and principles of denture construction.

Dentistry 257a–257b—Prosthetic dentistry clinic. A total of 330 hours. 257a—third year, 6 trimester credits; 257b—fourth year, 5 trimester credits. Professors CRAWFORD, HOYT, YOUNG, SMITH, and assistants.

Infirmary practice and demonstrations in denture construction.

Dentistry 258—Prosthetic dentistry. Three hours a week for one trimester. Third year. 1 trimester credit. Professor GILLET.

Lectures and laboratory work in the construction of round wire clasps and lugs for partial dentures.

Dentistry 259—Prosthetic dentistry. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor CRAWFORD.

Lectures and conferences on correlation of prosthetic dentistry with other branches of dental health service.

Dentistry 260—Prosthetic dentistry. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor CRAWFORD.

Conference course on fundamental problems in prosthetic dentistry.

Dentistry 261—Prosthetic dentistry elective. Professor CRAWFORD.

A reading and conference course.

PUBLIC HEALTH

Dentistry 264—Public health. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor LEONARD.

A course of lectures and conferences on public health practice.

ORAL RADIOLOGY

Dentistry 165—Oral radiology. One hour a week for one trimester. Second year. 1 trimester credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Dentistry 266—Oral radiology elective. Professor HOLLIDAY.

A course in technical radiology.

Dentistry 267—Oral radiology practice. Thirty hours. Third year. 1 trimester credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

ORAL SURGERY

Dentistry 168—Principles of surgery. One hour a week for two trimesters. Second year. 2 trimester credits. Professor PARKER.

Lectures and conferences on general surgical diseases and the principles of their treatment.

Dentistry 270—Oral surgery. One hour a week lecture for one trimester. Third year. 1 trimester credit. Professors PARKER and McCaffrey.

Lectures and conferences on local and general anesthesia and exodontia.

Dentistry 271a-271b—Oral surgery clinic. A total of sixty hours. 271a—third year, 1 trimester credit; 271b—fourth year, 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCaffrey, BIRENBACH, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia. Time is also assigned to observation of oral surgical operations and to an organized oral pathology clinic.

Dentistry 272—Oral surgery. Two hours a week for two trimesters. Fourth year. 2 trimester credits. Professors H. S. DUNNING and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Dentistry 273—Oral surgery. A total of thirty hours. Fourth year. No credit. Professors H. S. DUNNING, BERGER, PARKER, and McCaffrey.

Demonstration of oral and maxillo-facial lesions.

Dentistry 274—Oral surgery elective. Professor H. S. DUNNING and staff.

Clinical oral surgery.

PRACTICE OF MEDICINE

Dentistry 278—General survey of medicine. Two hours a week for three trimesters. Third and fourth years. 6 trimester credits. Professor McBEATH and associates.

Lectures, conferences and clinics covering phases of general medicine pertinent to dentistry.

Dentistry 279—Medico-dental clinic. A total of thirty hours of clinic in three trimesters. Fourth year. 1 trimester credit. Professor McBEATH and associates.

Clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

DENTAL ETHICS, JURISPRUDENCE, HISTORY, AND ECONOMICS

Dentistry 281—Dental ethics. One hour a week for one trimester. Third year. 1 trimester credit. Professor W. B. DUNNING.

A lecture and conference course with collateral reading on ethics and dental ethics.

Dentistry 282—Dental jurisprudence and history. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor GILLET.

A lecture and conference course with collateral reading.

Dentistry 283—Dental economics. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor SMITH.

A lecture and conference course in dental economics and office management.

NEUROLOGY

Neurology 150—Neuro-anatomy. Two hours of lecture and six hours of laboratory a week for one trimester. First year. 4 trimester credits. Professors ELWYN, STRONG, BRICKNER, Drs. SALZER and LYONS.

Lectures and demonstrations on the gross anatomy, structure and functions of the central nervous system. This course is equivalent to *Neurology 101* in the Medical School.

PATHOLOGY

Pathology 150FS—General and special pathology. Eleven hours lecture and laboratory a week First Trimester and six hours of lecture and laboratory a week Second Trimester. Second year. 9 trimester credits. Professors JOBLING, KESTEN, and assistants.

Lectures and laboratory.

This course covers the subject matter of *Pathology 101FS* in the Medical School but in abbreviated form.

PHARMACOLOGY

Pharmacology 150—General pharmacology. One lecture, one conference, and one three-hour laboratory period for two trimesters. Second year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, BLACKBERG, and HUMBERT.

Lectures and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. One hour a week for one trimester. Third year. 1 trimester credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Nine hours a week for two trimesters. First year. 10 trimester credits. Professor WILLIAMS and assistants.

Lectures, conferences and laboratory. This course is equivalent to *Physiology 101* in the Medical School, the two classes being taught together for lectures.

PSYCHIATRY

Psychiatry 150T—Psychopathology. One hour a week Second Trimester. Second year. 1 trimester credit. Professor LAMBERT.

Lectures on the structural basis of the mind; the instincts and emotions; development of the personality; social adjustment, failures in adjustment, compensatory reactions; types of abnormal behavior, emotional, neurotic and personality factors in physical illness; functional disorders with special reference to dental practice. General principles of mental hygiene.

This course is the same as *Psychiatry 101* in the Medical School.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY, GROSS. Cunningham, *Manual of Practical Anatomy*, \$11.55 a set. Choice of: Cunningham, *Textbook of Anatomy*, \$10.00; Gray, *Anatomy*, \$10.00; Piersol, *Human Anatomy*, \$10.00.

ANATOMY, MICROSCOPIC. Choice of: Bailey, Strong, and Elwyn, *Textbook of Histology*, \$5.50; Bremer, *Textbook of Histology*, \$6.00; Jordan, *A Textbook of Histology*, \$7.00; Maximow, *Textbook of Histology*, \$8.00.

BACTERIOLOGY. Gay, et al, *Agents of Disease and Host Resistance*, \$10.00. For reference: Appleton, *Bacterial Infection*, \$7.00.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$6.50.

DENTISTRY

Anatomy, oral. Diamond, *Dental Anatomy*, 2d revised ed., \$4.00.

Crown and bridge. Mimeographed notes furnished by the Department.

Dental jurisprudence. Brothers, *Dental Jurisprudence*, \$2.25 (required).

Histology, oral. Bodecker, *Fundamentals of Dental Histology and Embryology*, \$4.50.

Hygiene, oral. Fones, *Mouth Hygiene*, \$5.00, or Fones, *Preventive Dentistry*, \$2.50.

Operative dentistry. Black, *Operative Dentistry*, 4 vols., \$12.00 (required). Mimeographed notes are also furnished by the Department.

Physical properties of dental materials. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

Practice of Medicine. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.00

Prosthetic dentistry. Recommended but not required: Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50; Turner, *American Textbook of Prosthetic Dentistry*, \$10.00; Wilson, *Dental Prosthetics*, \$10.00.

Radiography. Recommended but not required: Ennis, *Dental Roentgenology*, 2d ed., \$6.00; Holliday, *Dental Radiology Handbook*, \$2.00.

Surgery, oral. Berger, *Principles and Technique of Oral Surgery*, \$7.00 (required); Blair and Ivy, *Essentials of Oral Surgery*, \$6.50; De Costa, *General Surgery*, \$10.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Flagg, *Art of Anesthesia*, \$5.00; Scudder, *Tumors of the Jaws*, \$10.00.

NEURO-ANATOMY. Choice of: Bailey, *Histology*, 6th or 7th ed.; Ranson, *Anatomy of the Nervous System*; Strong, *Neuro-Anatomy*, \$1.50.

PATHOLOGY. McCallum, *Pathology*, \$10.00.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Cushny, *Pharmacology and Therapeutics*, \$6.50; Sollmann, *Manual of Pharmacology*, \$7.50.

PHYSIOLOGY. Winton and Bayliss, *Human Physiology*, \$4.50.

PSYCHIATRY. Hinsie, *Syllabus of Psychiatry*, \$2.50; White, *Introduction to the Study of the Mind*, \$2.00.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.00; Gould, *Medical Dictionary*, \$7.50; Stedman, *Medical Dictionary*, \$7.00.

CONDENSED ACADEMIC CALENDAR

For other dates refer to the regular Academic Calendar

1936

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)

FOR THE WINTER SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee of \$6.00.

September 14 Monday, to September 16, Wednesday. For dental students.

September 17 Thursday. Classes begin.

October 12 Monday. Columbus Day. Not a University holiday.

November 3 Tuesday. Election day. Holiday.

November 26 Thursday. Thanksgiving. Holiday.

November 30 Monday. Second Trimester begins, second and fourth years.

December 2 Wednesday. Second Trimester begins, first year.

December 4 Friday. Second Trimester begins, third year.

December 21 Monday to

1937

January 3 Sunday, inclusive. Christmas holidays.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)

FOR THE SPRING SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee of \$6.00.

January 12 Tuesday, to January 18, Monday. For dental students.

February 12 Friday. Alumni Day. Not a University holiday.

February 22 Monday. Washington's Birthday. Holiday.

February 23 Tuesday. Third Trimester begins, second year.

March 1 Monday. Third Trimester begins, first and fourth years.

March 5 Friday. Third Trimester begins, third year.

March 25 Thursday to March 27, Saturday, inclusive. Easter holidays.

April 15 Thursday. Last day for filing application or renewal of application for degree of D.D.S. or for certificate to be conferred in June. The privilege of later application may be granted on payment of a fee of \$6.00.

May 15 Saturday. Classes end, first and fourth years.

May 17 Monday. Final examinations begin, first and fourth years.

May 22 Saturday. Classes end, second and third years.

May 24 Monday. Final examinations begin, second and third years.

May 31 Monday. Memorial Day. Holiday.

COMMENCEMENT, MAY 30 TO JUNE 1

May 30 Sunday. Baccalaureate Service.

June 1 Tuesday. Conferring of degrees.

Columbia University

BULLETIN OF INFORMATION

Thirty-seventh Series, No. 27

June 19, 1937

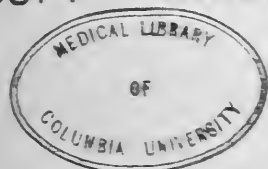
ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

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1937-1938



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630 WEST 168TH STREET
NEW YORK

Columbia University Bulletin of Information

Thirty-seventh Series, No. 27

June 19, 1937

Issued at Columbia University, Morningside Heights, New York, N. Y., weekly from mid-December for thirty-eight consecutive issues. Entered as second-class matter December 22, 1936, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized. These include:

1. Reports of the President and Treasurer to the Trustees.
2. The Catalogue Number, Directory Number, and the Announcements of the several Colleges, Schools, and Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent without charge upon application to the Secretary of the University.

C.U.P. 6,000—1937.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to The School of Dental and Oral Surgery, 630 West 168th Street; telephone Wadsworth 3-2500.

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ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1937-1938



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS OF THE FACULTY

NICHOLAS MURRAY BUTLER, LL.D. (Cantab.), D.Litt. (Oxon.), Hon.D. (Paris)
President of the University
WILLARD COLE RAPPLEYE, A.M., M.D. *Dean*
HOUGHTON HOLLIDAY, A.B., D.D.S. . *Associate Dean and Secretary of the Faculty*

FACULTY

ADOLPH BERGER	MILO HELLMAN
CHARLES F. BODECKER	HOUGHTON HOLLIDAY
LESTER R. CAHN	ANNA V. HUGHES
HANS T. CLARKE	JAMES W. JOBLING
WILLIAM H. CRAWFORD	MAXWELL KARSHAN
SAMUEL R. DETWILER	HAROLD J. LEONARD
HENRY S. DUNNING	CHARLES C. LIEB
WILLIAM B. DUNNING	EWING C. McBEATH
FREDERICK P. GAY	WILLARD C. RAPPLEYE
HENRY W. GILLET	LEUMAN M. WAUGH
LEROY L. HARTMAN	HORATIO B. WILLIAMS

DANIEL E. ZISKIN

OFFICERS OF INSTRUCTION

EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922. [Oral Histology]

HOWARD T. APPLGATE *Assistant in Dentistry*
D.D.S., New York College of Dentistry, 1919. [Hospital Dentistry]

HERBERT DELBERT AYERS, JR. *Assistant in Dentistry*
A.B., Columbia, 1929, D.D.S., 1931. [Oral Anatomy]
Clinical Assistant, Queens General Hospital.

WILLIAM WELLS BAADÉ *Assistant in Dentistry*
D.D.S., Minnesota, 1921. [Hospital Dentistry]
Assisting Attending Dental Surgeon, Presbyterian Hospital.

HENRY ULYSSES BARBER, JR. *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1916. [Orthodontia]

HENRY ARTHUR BARTELS *Assistant Professor of Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927. [Oral Pathology]
Assistant Bacteriologist, Division of Laboratories and Research, State
Department of Health; Attending Dental Surgeon, Bryson Day Nursery.

WALTER REGINALD BEAVEN *Instructor in Pharmacology*
D.D.S., Columbia, 1926.

ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon,
Presbyterian Hospital.

- SAMUEL BIRENBACH *Assistant Professor of Dentistry*
 D.D.S., New York College of Dentistry, 1917. [Oral Surgery]
 Visiting Oral Surgeon, Morrisania Hospital; Associate Oral Surgeon,
 Beth Israel Hospital; Attending Oral Surgeon, St. John's Hospital.
- SOLOM NATHANIEL BLACKBERG *Instructor in Pharmacology*
 D.V.M., Cornell, 1918; B.C., Texas Agricultural and Mechanical, 1926; Ph.D., Tulane, 1928.
- CHARLES FRANCIS BODECKER *Professor of Dentistry*
 D.D.S., Buffalo, 1900. [Oral Histology]
- NORMAN WINGATE BOYD *Assistant in Dentistry*
 B.S., Columbia, 1928; D.D.S., 1930. [Prosthetics]
- RICHARD M. BRICKNER *Assistant Professor of Neurology*
 B.S., Columbia, 1921; M.D., 1923.
- MAURICE BUCHBINDER *Associate Professor of Dentistry*
 B.S., College of the City of New York, 1917; D.D.S., Columbia, 1925. [Operative]
- LESTER RICHARD CAHN *Associate Professor of Dentistry*
 D.D.S., New York College of Dentistry, 1917. [Oral Pathology]
 Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE SAMUEL CALLAWAY *Associate Professor of Dentistry*
 D.D.S., Pennsylvania, 1923. [Orthodontics]
 Attending Orthodontist, Fifth Avenue Hospital, Polyclinic Hospital.
- RUSSELL LEGRAND CARPENTER *Assistant Professor of Anatomy*
 B.S., Tufts, 1924; Ph.D., Harvard, 1928.
- KENNETH FULTON CHASE *Instructor in Dentistry*
 D.M.D., Tufts, 1928. [Oral Surgery]
 Consulting Dental Surgeon, New York Eye and Ear Infirmary;
 Clinical Assistant, Roosevelt Hospital.
- HANS THACHER CLARKE *Professor of Biological Chemistry*
 B.Sc., London, 1908; D.Sc., 1913.
 Consultant in Biological Chemistry, Presbyterian Hospital.
- J. FRANCES COBBAN *Special Lecturer in Dentistry*
 R.N., New York Hospital, 1906. [Courses for Dental Hygienists]
- KENNETH STEWART COLE *Assistant Professor of Physiology*
 A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Assistant Professor of Anatomy*
 A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- WILLIAM HOPKINS CRAWFORD *Professor of Dentistry*
 D.D.S., Minnesota, 1923. [Prosthetics]
 Attending Dental Surgeon, Presbyterian Hospital.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
 Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S. (Hon.), 1931.
 Consultant in Anatomy, Presbyterian Hospital.
- ROBERT CYRIL DEVINE *Instructor in Dentistry*
 B.S., St. Joseph's, 1923; D.D.S., Pennsylvania, 1928. [Oral Surgery]
 Resident Dentist, New York State Psychiatric Institute and Hospital.
- MOSES DIAMOND *Associate Professor of Dentistry*
 D.D.S., New York College of Dentistry, 1914. [Oral Anatomy]
 Consultant in Dentistry, Hawthorne Institute.

- FREDERICK SCHULKEN DOSCHER *Assistant in Dentistry*
B.S., Princeton, 1928; D.D.S., Columbia, 1935. [Prosthetics]
- WALTER F. DUGGAN *Instructor in Physiology*
A.B., Columbia, 1923; A.M., 1925; M.D., 1927.
Junior Surgeon, Herman Knapp Memorial Eye Hospital.
- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; [Oral Surgery]
B.S., New York University, 1915.
Attending Oral Surgeon, Presbyterian, Sloane, Babies, and Fifth Avenue Hospitals, and Vanderbilt Clinic; Consulting Oral Surgeon, Knickerbocker, Nassau, Roosevelt, St. Vincent's, St. Luke's, Mary Immaculate, Jamaica, Norwalk, State Reconstruction, West Haverstraw, United Port Chester, North Hudson, Meadowbrook, and Hackensack General Hospitals, Hospital for Ruptured and Crippled, and National Hospital for Speech Disorders.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895. [Periodontia]
Director of the Department of Dentistry, New York Orthopaedic Dispensary and Hospital.
- ADOLPH ELWYN *Associate Professor of Neurology*
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Associate Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1923; Ph.D., Stanford, 1925.
- JACOB ERDREICH *Assistant in Dentistry*
D.M.D., Tufts, 1931. [Oral Anatomy]
Clinical Assistant, New York Post-Graduate Hospital.
- GENEVIEVE FOLEY *Assistant in Bacteriology*
A.B., Simmons, 1929; A.M., Columbia, 1932.
- JOSEPH OCTAVIUS FOURNIER *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1913. [Oral Diagnosis]
Dental Consultant, Marine Hospital, U. S. Public Health Service.
- HERBERT PHILIP FRITZ *Assistant in Dentistry*
B.S., New York University, 1933; D.D.S., Columbia, 1936. [Operative]
- HARRY ALLEN GALTON *Assistant in Dentistry*
D.D.S., Columbia, 1932. [Orthodontics]
- FREDERICK PARKER GAY *Professor of Bacteriology*
A.B., Harvard, 1897; M.D., Johns Hopkins, 1901; Sc.D., George Washington, 1932.
Bacteriologist, Presbyterian Hospital.
- HENRY WEBSTER GILLET *Professor of Dentistry*
D.M.D., Harvard, 1885. [Prosthetics]
- BENJAMIN WILLIAM GLICK *Instructor in Anatomy*
B.S., New York University, 1928; A.M., Columbia, 1930; M.D., 1934.
- ISIDORE H. GOLDBERGER *Special Lecturer in Dentistry*
M.D., New York University, 1910. [Courses for Dental Hygienists]
Assistant Clinical Professor of Pediatrics, New York University and Bellevue Hospital Medical College; Assistant Director of Health Education, Board of Education, New York City; Attending Pediatricist, Willard Parker Hospital; Associate Attending Pediatricist, Home for Hebrew Infants; Consulting Pediatricist, Morrisania General Hospital.
- LEO JOSEPH HAHN *Instructor in Physiology*
Ph.B., Yale, 1914; M.D., 1918.
- IRVING R. HARDY *Special Lecturer in Dentistry*
D.M.D., Tufts, 1917. [Prosthetics]

- LEROY LEO HARTMAN *Professor of Dentistry*
 D.D.S., Northwestern, 1913; Sc.D., 1936. [Operative]
 Attending Dental Surgeon, Presbyterian Hospital.
- MILO HELLMAN *Professor of Dentistry*
 D.D.S., Pennsylvania, 1905; Sc.D., 1933. [Orthodontic Research]
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
 D.D.S., New York College of Dentistry, 1902. [Periodontia]
 Chief, Periodontia Department, Beth Israel Hospital; Attending Dental
 Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint
 Diseases.
- EDWARD HODNETT *Lecturer in English*
 A.B., Columbia, 1922; Ph.D., 1935. [Courses for Dental Hygienists]
- BRUCE MACLEAN HOGG *Assistant in Surgery*
 A.B., Columbia, 1927; A.M., 1931; M.D., 1933.
- HOUGHTON HOLLIDAY *Professor of Dentistry*
 A.B., Minnesota, 1915; D.D.S., 1917. [Radiology]
 Attending Dental Surgeon, Presbyterian Hospital.
- KATHERINE FLORENCE HOLLIS *Instructor in Dentistry*
 Certificate in Oral Hygiene, Columbia, 1921. [Courses for Dental Hygienists]
- RUSSELL L. HOLMAN *Instructor in Pathology*
 A.B., Washington, 1927; M.D., Vanderbilt, 1931.
 Junior Assistant Pathologist, Presbyterian Hospital.
- EARLE BANKS HOYT *Associate Professor of Dentistry*
 D.D.S., Pennsylvania, 1918. [Prosthetics]
- ANNA VERONICA HUGHES *Professor of Dentistry*
 D.M.D., Tufts, 1909. [Courses for Dental Hygienists]
 Director of Courses for Dental Hygienists.
- MELVILLE HUMBERT *Instructor in Pharmacology*
 A.B., Columbia, 1923; B.S., 1924; D.D.S., 1926.
- IRVIN L. HUNT, JR. *Instructor in Dentistry*
 D.D.S., Pennsylvania, 1929. [Operative]
- LEWIS EDWARD JACKSON *Instructor in Dentistry*
 D.D.S., Buffalo, 1913. [Orthodontics]
- JAMES WESLEY JOBLING *Professor of Pathology*
 M.D., Tennessee Medical, 1897.
 Pathological Director, Presbyterian Hospital; Consulting Pathologist, Sloane Hospital.
- HARRY KAPLAN, JR. *Assistant in Dentistry*
 B.S., New York University, 1931; D.D.S., Columbia, 1935. [Oral Diagnosis]
- MAXWELL KARSHAN *Associate Professor of Biological Chemistry*
 B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- EUGENE J. KELLY *Instructor in Dentistry*
 D.D.S., Pennsylvania, 1928. [Orthodontics]
- HOMER D. KESTEN *Assistant Professor of Pathology*
 B.S., Wisconsin, 1920; M.S., 1921; M.D., Columbia, 1924.
 Assistant Attending Pathologist, Presbyterian Hospital.
- BARRY G. KING *Instructor in Physiology*
 A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.

- SAMUEL HAROLD KLEIN** *Instructor in Anatomy*
A.B., Cornell, 1925; M.D., 1928.
Assistant Surgeon in Pathology, Assistant Surgeon Out-Patient Department, Assistant in Peripheral Vascular Diseases, Volunteer in Surgery, Mount Sinai Hospital; Assistant Visiting Surgeon, Harlem Hospital.
- SIDNEY J. KLEIN** *Assistant in Bacteriology*
B.S., College of the City of New York, 1929; A.M., Columbia, 1930; Ph.D., 1933.
- CHARLES I. LAMBERT** *Professor of Psychiatric Education in Teachers College*
B.S., Iowa, 1901; M.S. and M.D., 1903.
Attending Psychiatrist, Vanderbilt Clinic; Assistant Consultant, Presbyterian and Sloane Hospitals.
- WILLIAM LEFKOWITZ** *Assistant in Dentistry*
D.D.S., Columbia, 1924. [Oral Histology]
- HAROLD JUDSON LEONARD** *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915. [Periodontia]
Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB** *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906
Consultant in Pharmacology, Presbyterian and Mount Sinai Hospitals.
- GEORGE FRANK LINDIG** *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924. [Operative]
- ROBERT KORN LIPPMAN** *Research Assistant in Dentistry*
B.S., Columbia, 1918; M.D., Johns Hopkins, 1922. [Oral Pathology]
Associate Attending Orthopedist, Mount Sinai Hospital.
- JULIUS K. LITTMAN** *Instructor in Anatomy*
M.D., Long Island College Hospital, 1926.
Assistant Adjunct in Surgery, Bronx Hospital.
- JOSEPHINE EMILY LUHAN** *Assistant Professor of Dentistry*
D.D.S., New York College of Dental and Oral Surgery, 1912. [Courses for Dental Hygienists]
- L. VOSBURGH LYONS** *Associate in Neurology*
M.D., Columbia, 1917.
Attending Neurologist, Neurological Institute, City Hospital, and Vanderbilt Clinic; Consulting Neurologist, Englewood Hospital and State School for Boys, Warwick, N. Y.
- EWING CLEVELAND McBEATH** *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921. [Children's Dentistry]
- FRANCIS STEPHEN McCAFFREY** *Associate Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon, Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Assistant Attending Oral Surgeon, Vanderbilt Clinic; Consulting Oral Surgeon, Manhattan State Hospital.
- MORELL DION McKENZIE** *Instructor in Dentistry*
D.D.S., Minnesota, 1917. [Prosthetics]
- DONALD JOHN W. McLAUGHLIN** *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1926. [Prosthetics]
- JOSEPH L. McSWEENEY** *Assistant in Dentistry*
D.D.S., Tennessee, 1920 [Oral Surgery]
Visiting Dental Surgeon, St. Vincent's Hospital.

- HENRY MILCH *Instructor in Anatomy*
A.B. and M.D., Columbia, 1916.
Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct Surgeon, Riverside Hospital.
- MILTON R. MILLER *Instructor in Dentistry*
B.S., Columbia, 1928; D.D.S., 1930. [Operative]
Attending Dental Surgeon, Unity Hospital.
- WILLIAM MILLER *Assistant in Dentistry*
B.S., Columbia, 1929; D.D.S., 1931. [Operative]
- LOIS COFFEY MOSSMAN *Associate Professor of Education in Teachers College*
B.S., Columbia, 1911; A. M., 1920; Ph.D., 1924. [Courses for Dental Hygienists]
- EDWARD GERALD MURPHY *Assistant Professor of Dentistry*
D.D.S., Michigan, 1924. [Orthodontics]
- ROBERT W. NORTHPROP *Instructor in Dentistry*
D.D.S., Michigan, 1928. [Oral Surgery]
- CARL REUBEN OMAN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1914. [Operative]
- ARMAND M. OPPENHEIMER *Special Lecturer in Dentistry*
A.B., College of the City of New York, 1926; B.S., Columbia, 1927; [Orthodontics]
D.D.S., 1929.
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914. [Oral Surgery]
Attending Oral Surgeon, City Hospital; Assistant Attending Oral Surgeon, Babies Hospital and Vanderbilt Clinic; Consultant in Oral Surgery, Swedish, Vassar, and Grasslands Hospitals; Consulting Oral Surgeon, Yonkers General Hospital and Lawrence Hospital, Bronxville.
- HORACE O. PARRACK *Instructor in Physiology*
A.B., West Virginia, 1929; A.M., Columbia, 1932.
- HENRY JOSEPH POWELL *Assistant in Dentistry*
B.S., Manhattan, 1928; D.D.S., Columbia, 1931. [Oral Diagnosis]
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
D.D.S., Marion Sims Dental College, 1903. [Prosthetics]
Assisting Attending Dental Surgeon, Presbyterian Hospital.
- WILLARD COLE RAPPLEYE *Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M. (Hon.), Yale, 1922.
- FRANK ELMER RIAN *Instructor in Dentistry*
D.D.S., Buffalo, 1905. [Orthodontics]
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1929; [Children's Dentistry]
D.D.S., Columbia, 1930.
- BENJAMIN SALZER *Instructor in Neurology*
M.D., Zurich, 1911.
- LOUIS SCHORR *Special Lecturer in Dentistry*
D.D.S., New York College of Dentistry, 1918. [Prosthetics]

- JOSEPH SCHROFF *Associate Professor of Dentistry*
 B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
 D.D.S., 1922.
 Oral Surgeon, O.P.D., Mount Sinai Hospital; Attending Oral Surgeon, Jewish Memorial
 Hospital; Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE SCHWENDENER *Assistant in Dentistry*
 [Prosthetics]
 Chirurgien Dentiste, Ecole de Chirurgie Dentaire et de Stomatologie de Paris, 1930; D.D.S.,
 Columbia, 1935.
- ALEITA H. SCOTT *Assistant Professor of Physiology*
 A.B., Hunter, 1912; Ph.D., Columbia, 1923.
- ERNEST LYMAN SCOTT *Associate Professor of Physiology*
 B.S., Ohio Wesleyan, 1902; M.S., Chicago, 1911; Ph.D., Columbia, 1914.
- ALBIN ROBERT SEIDEL *Instructor in Dentistry*
 D.M.D., Tufts, 1927. [Oral Surgery]
 Assistant Director of Dental Service and Associate Attending Dental
 Surgeon, Presbyterian Hospital.
- AURA EDWARD SEVERINGHAUS *Assistant Professor of Anatomy*
 B.S., Columbia, 1916; A.M., 1919; Ph.D., 1929.
- HARRY H. SHAPIRO *Instructor in Anatomy*
 D.M.D., Tufts, 1918.
 Attending Dentist, Cornwall Hospital.
- GILBERT PERCIVAL SMITH *Assistant Professor of Dentistry*
 D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH *Professor of Anatomy*
 B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
 Associate Consultant in Anatomy, Presbyterian Hospital.
- IRVING J. SPERBER *Special Lecturer in Dentistry*
 D.D.S., New York College of Dentistry, 1918.
 Attending Dentist, New York Psychiatric Institute and Hospital and Manhattan State Hospital.
- MICHAEL RUSSELL STEIN *Research Assistant in Dentistry*
 D.D.S., New York University, 1927. [Oral Histology]
- ELIAS L. STERN *Instructor in Anatomy*
 B.S., Columbia, 1920; M.D., 1922.
 Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant
 Surgeon, Mount Sinai Dispensary.
- FERDINAND A. STEWART, JR. *Instructor in Dentistry*
 A.B., Pennsylvania, 1921; D.D.S., 1925. [Oral Surgery]
- LEWIS RIDDELL STOWE *Associate Professor of Dentistry*
 D.D.S., Minnesota, 1916 [Children's Dentistry]
 Assisting Attending Dental Surgeon, Presbyterian Hospital;
 Attending Dental Surgeon, Babies Hospital; Consultant in Dental and Oral Surgery, Neurological
 Institute.
- OLIVER SMITH STRONG *Professor of Neurology and Neurohistology*
 A.B., Princeton, 1886; A.M., Columbia, 1892; Ph.D., 1895.
 Consultant in Neuropathology, Vanderbilt Clinic.
- HARRY STRUSSER *Special Lecturer in Dentistry*
 D.D.S., New York University, 1918.

- JOSEPH KIDDOW SURLS *Special Lecturer in Dentistry*
A.B., Williams, 1913; M.D., Harvard, 1917. [Courses for Dental Hygienists]
- ARTHUR CRANSTON TOTTEN *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1926. [Orthodontics]
- GENEVA HASTINGS WALLS *Instructor in Dentistry*
Dental Hygiene Diploma, Forsyth Dental Infirmary, 1917. [Courses for Dental Hygienists]
- LEUMAN MAURICE WAUGH *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Orthodontics]
Consultant in Orthodontics, New York Orthopaedic Dispensary and
Hospital and New York Infirmary for Women and Children.
- HORATIO BURT WILLIAMS *Dalton Professor of Physiology*
A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
Consultant in Physiology, Presbyterian Hospital; Consulting Physician, Greenwich Hospital;
Consultant, Neurological Institute.
- HAROLD S. WOODRUFF *Instructor in Dentistry*
D.D.S., Minnesota, 1918. [Prosthetics]
- HARRY ALLEN YOUNG *Assistant Professor of Dentistry*
D.D.S., Indiana, 1919. [Prosthetics]
- DANIEL E. ZISKIN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1917. [Oral Diagnosis]
Associate Attending Dental Surgeon, Presbyterian Hospital.

CLINICAL ASSISTANTS

- | | |
|----------------------------|----------------------------------|
| RALPH BECKER, B.S., D.D.S. | BENNETT M. LATHROP, B.S., D.D.S. |
| FRANK E. BEUBE, D.D.S. | JESSE L. LEFCOURT, B.S., D.D.S. |
| HARRY DARROW, D.D.S. | EUNICE LeMAY, D.M.D. |
| SAMUEL B. DRELICH, D.D.S. | GUSTAVE REICH, D.D.S. |
| MARY GOLDFARB, D.D.S. | ESSE ROSE, D.D.S. |
| WARREN S. HOUSTON, D.D.S. | HERBERT F. SILVERS, B.S., D.D.S. |
| HAROLD KILPATRICK, D.D.S. | LESTER A. WOLFSON, D.D.S. |

DAVID ZEISLER, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

HAROLD J. LEONARD, B.S., D.D.S., *Director*
ALBIN R. SEIDEL, D.M.D., *Assistant Director*

Attending Dental Surgeons

- | | |
|------------------------------------|---------------------------------|
| ADOLPH BERGER, D.D.S. | ISADOR HIRSCHFELD, D.D.S. |
| WILLIAM H. CRAWFORD, D.D.S. | HOUGHTON HOLLIDAY, A.B., D.D.S. |
| LEROY L. HARTMAN, D.D.S., Sc.D. | HAROLD J. LEONARD, B.S., D.D.S. |
| FRANCIS S. McCAFFREY, B.S., D.D.S. | |

Associate Attending Dental Surgeons

- | | |
|------------------------------------|--------------------------|
| LESTER R. CAHN, D.D.S. | ALBIN R. SEIDEL, D.M.D. |
| JOSEPH SCHROFF, B.S., M.D., D.D.S. | DANIEL E. ZISKIN, D.D.S. |

Assisting Attending Dental Surgeons

HOWARD T. APPLGATE, D.D.S.

JOHN F. RALSTON, D.D.S.

WILLIAM W. BAADÉ, D.D.S.

LEWIS R. STOWE, D.D.S.

Interns

GEORGE B. ODLUM, D.M.D.

SAUL COHEN, D.D.S.

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S., *Attending Oral Surgeon*

COMMITTEES

*Administration*Dean RAPPEYE, *Chairman*, Professors BODECKER, CRAWFORD, H. S. DUNNING,
HARTMAN, HOLLIDAY, LEONARD, and WAUGH*Curriculum*Professor HOLLIDAY, *Chairman*, Professors BERGER, BODECKER, CRAWFORD,
HARTMAN, KARSHAN, KESTEN, LEONARD, and LIEB*Library*Professor HOLLIDAY, *School of Dental and Oral Surgery Representative**Extension and Graduate Courses*Professor WAUGH, *Chairman*, Professors BERGER, CRAWFORD, and McBEATH*Research*Professor BODECKER, *Chairman*, Professors CAHN, CRAWFORD, HELLMAN,
and McBEATH

UNIVERSITY OFFICERS OF ADMINISTRATION

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 FRANK H. BOWLES, A.M. *Director of University Admissions*
 CHARLES C. WILLIAMSON, Ph.D., Litt.D. *Director of University Libraries*
 ROGER HOWSON, A.M. *Librarian*
 EDWARD J. GRANT, A.B. *Registrar of the University*
 W. EMERSON GENTZLER, A.M. *Bursar of the University*
 HENRY LEE NORRIS, M.E. *Director of Buildings and Grounds*
 FREDERICK MILLER, C.E. *Assistant Superintendent of Buildings and Grounds*
 REV. RAYMOND C. KNOX, S.T.D. *Chaplain of the University*
 EDWARD S. ELLIOTT, M.D. *Director of Athletics*

BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
HERBERT B. HOWE, A.M.	<i>Director of Men's Residence Halls</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.B.	<i>Alumni Secretary</i>

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work; but in 1784 it was reopened as Columbia College. In 1912, the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center where it occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The College of Physicians and Surgeons in which the fundamental medical science subjects are given adjoins it, the halls of the two being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course in dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments of the College of Physicians and Surgeons.

STUDENTS

A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a nonmatriculated student with permission to attend such courses of instruction as he is qualified to take but not as a candidate for a degree, certificate, or diploma in regular course. Nonmatriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Nonmatriculated students may receive formal statement of the satisfactory completion of any course.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Diplomas are issued at Commencement, in October and February (in the case of the A.M. degree, at Commencement, in December and February, or, in the case of the Ph.D., Med.Sc.D., Jur.Sc.D., and Ed.D. degrees, upon completion of the requirements; also in August for the D.D.S. degree, and the B.S. degree in optometry).

An application for a degree or certificate, other than the Ph.D., Med.Sc.D., Jur.Sc.D., or Ed.D. degrees terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a dis-

charge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing are required to notify the Registrar immediately.

The Dean of the school or faculty concerned, may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions under which the departments of instruction are grouped, may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 70,000 volumes and about 3,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center and is open to students from 9 a.m. to 10 p.m., on week days. This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, and teachers of the combined schools and Presbyterian Hospital Unit. It has a seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received 1,500 current journals, and nearby are shelved the bound volumes of the most important journals covering a period of approximately ten years. In addition, the more important reference works, the systems of medicine and surgery, some of the German *Handbücher*, and other bibliographical tools will be available for intensive research work.

The book collections are systematically arranged under the Library of Congress classification, and the serials shelved in a strictly alphabetical order, so as to insure quick service and prompt delivery over the loan desk.

The dictionary catalogue in the lobby, with its author, subject, and title entries, should be freely consulted as a guide and index to the subject matter in the combined collections of the library.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University dormitories at Morningside Heights, and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related

to dentistry, and supplement the special collections available in the College of Physicians and Surgeons, and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Gymnasium. The Gymnasium is situated on Morningside Heights, and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education who is assisted by a corps of able instructors.

Employment. The Appointments Office located in Alumni House is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is being operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given each year to each student. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School, and to have all necessary dental work completed.

The University Medical Officer, DR. W. H. McCASTLINE, has supervision of all matters affecting the health of the student body.

RESIDENCE HALLS

All students registered within the University regularly pursuing their courses of study are eligible for residence in University Residence Halls. The University desires its students to live whenever possible in the Residence Halls which are a part of the

educational development and life of Morningside Heights. These Halls, owned and controlled by the University, are located on or immediately adjacent to the Campus, afford easy access to library and laboratories, and should provide for students companionship with persons of like interest. Within several of the Residence Halls dining rooms are maintained by the University and administered by skilled dietitians. Infirmarys are maintained for the exclusive use of students in the Residence Halls. Assignment of room is made on the academic year basis but rentals may be paid on session, monthly, or in case of need, weekly basis.

Application blanks for rooms and copies of Residence Halls Announcements, giving floor plans and dormitory regulations, will be furnished on request by the Secretary of the University, 213 Low Memorial Library.

Residence for Men

The office of the Director of Men's Residence Halls is 125 Livingston Hall. The four Residence Halls for men are located on South Quadrangle with accommodations for approximately 1,350 men. Hartley Hall and the fifth, sixth, and seventh floors of John Jay Hall are reserved primarily for the undergraduate students of Columbia College. Furnald Hall is primarily reserved for law students while Livingston Hall and the eighth to the fifteenth floors of John Jay Hall are for graduate and professional school students.

Room fees for the academic year range from \$130 to \$261; for the Summer Session, from \$23 to \$52. The lower-priced rooms are assigned as scholarship awards by special application to the Secretary of Appointments.

Adequate restaurant facilities are provided in John Jay Hall and a combination room and board rate is offered to all residents.

The University infirmary for men is located on the top floor of John Jay Hall. The services of the infirmary are exclusively available to residents of the dormitories.

Residence for Women

Graduate and professional women within the University live in Johnson Hall. The Hall was erected and particularly designed for the comfort and convenience of women students. With its ample social rooms and attractive dining room and bedrooms, it offers conditions enabling students to gain the greatest benefit from University life. Attention is called to the table of estimated expenses on page 24 of this Announcement.

The University infirmary for women is located on the top floor of Johnson Hall. The services of the infirmary are exclusively available to residents of the dormitories.

Residence in Barnard College

Barnard College maintains dormitories for undergraduate women. When space is available graduate women, particularly when graduates of Barnard College, will be received in residence. Dining facilities are provided for students in Barnard College.

RESIDENCE BUREAU

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the University Residence Bureau in Alumni House.

KING'S CROWN HOTEL

The King's Crown Hotel, located at 420 West 116th Street, in close proximity to the University, is owned by the University and operated by the Knott Hotels Corporation. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main floor, reached by the Campus entrance, are the offices of the three Religious Counselors. On the upper floor are the offices of the Chaplain of the University and his staff. An auditorium seating 300 people is used by the Department of English and Comparative Literature for dramatic composition and production. The lower floor, entered from Broadway, is occupied by the office of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch in Room B-463 of the College of Physicians and Surgeons. In addition to medical and dental textbooks the store carries a stock of new and used microscopes, laboratory equipment and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6:30 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services, with substantial savings to Columbia students.

REQUIREMENTS FOR ADMISSION, PROMOTION,
AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application by March 1 in order to be passed upon by the Committee on Admissions at an early date. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is successful completion of three full years at an acceptable college of arts and sciences, which must

include successful completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

English composition and literature, 6 semester hours.

Physics, 6 semester hours.

Biology, 6 semester hours.

Chemistry (including an approved course in organic chemistry), 12 semester hours.

Inasmuch as an understanding of the medical sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary and so difficult to attain in later years.

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected.

Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

In order that the best selections may be made from among the candidates who are eligible for admission, all such applicants will be requested to report at the Dean's office for a personal interview some time prior to the final action of the Committee on Admissions. Those who remain on the eligible list after a personal interview will be given an examination as to mechanical ability and manual dexterity. This test will be given at various times during the year. It will consist of exercises in mechanical and free-hand drawing, metal filing, and molding in plastic material, and will be conducted by the technic teachers in the School.

Fee on Acceptance. A fee of \$50 is payable by the applicant within ten days of his receipt of notice that he has been accepted for admission. A check to the order of Columbia University should be returned by the accepted applicant with notice that he intends to matriculate. If the applicant registers within the prescribed registration dates in September, this fee will be credited on his tuition account. If he fails to register the fee lapses and will be used by the University to meet the cost of its administrative and overhead charges in caring for applicants who do not finally register.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Course in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

Admission to Advanced Standing. Students will not be admitted to advanced standing upon examination, but only upon a satisfactory record from their school of previous residence. Provided they are eligible for the dental student qualifying certificate required by the New York State Department of Education and can submit evidence of the satisfactory completion of the entrance requirements of this school, candidates who have completed, without condition, one or two years of study in a dental school registered in the state of New York including courses equivalent to those given at this school are eligible to apply for admission to the second or third years, respectively. Students applying for admission to the third year must have passed the partial examination of the New York State Board of Dental Examiners.

Owing to the lack of uniformity in the arrangement of the first and second year curricula in the various dental schools a transfer usually can be accomplished with the least adjustment at the end of the second year.

Application blanks may be obtained from the Dean's office.

SUMMER SESSION

No regular courses will be offered during the Summer Session of 1937. Students who have successfully completed all the requirements of the third year may elect work in clinical practice, without credit, from June 2 to July 9, 1937, subject to the approval of the departments concerned.

Students having deficiencies in technical or clinical courses must register for those courses by June 1, 1937. Fees will be charged on the basis of \$10 per trimester credit.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, will arrange courses in the various divisions of dentistry at the request of groups of practitioners whenever the undergraduate teaching schedule will permit. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

Several divisions of the School will offer short, intensive courses during the summer of 1937. For the booklet of information address the office of the Dean.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country and the applicant must be a member in good standing of his national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery.

The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized twelve-month course has been given since 1927 to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as qualification for admission. For information regarding the curricula leading to the Master of Arts or the Doctor of Philosophy degrees under these Faculties see the Graduate Announcement.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar, and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$6.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed by statute:

(a) University Fee

(1) For each Winter or Spring Session or any part thereof:

For students enrolled for more than six points	\$10.00
For students enrolled for six points or less	\$5.00

(2) For each Summer Session or any part thereof \$7.00

(b) Tuition Fee

I. For all courses, other than pre-collegiate or noncredit courses in University

Extension, per point, except in cases where a special fee is fixed \$12.50

With the proviso:

That the minimum fee for a Winter or Spring Session in the case of a student enrolled for the full course in the School of Medicine or in the School of Dental and Oral Surgery shall be not less than \$250.00

That the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in dental hygiene shall not be less than . \$190.00

II. For pre-collegiate or noncredit courses in University Extension, per point \$10.00

(c) Fee for Application

For any degree	\$20.00
For any certificate	\$10.00

(d) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations \$6.00
2. Deficiency and special examinations \$3.00
3. Renewal of application for any degree or certificate \$1.00

The conditions under which such privileges shall be granted are to be determined by the Registrar with the approval of the President.

(e) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a deficiency or a special examination, or for a degree, without the payment of an additional fee, see the Academic Calendar. An examination to remove a deficiency in a course, or an examination at an unusual time, involves the payment of a fee.

A deposit for the use of lockers, apparatus, material, and the like is required of students in certain schools and courses. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals, beyond this allowance; and service in washing apparatus, or work by a mechanic. A deposit of \$25 will be required in the School of Dental and Oral Surgery each year to cover material and breakage in the laboratories; for each Summer Session, \$10.

Instruments. Each student is required to supply himself with a microscope of a satisfactory type and instruments as specified in the official instrument list. The purchase from the University of microscopes and instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. Dental engines and instrument cases are rented from the School at the rate of \$25 for the academic year, payable in advance on registration in September.

Supplies. All technic material and regular supplies *must* be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are

selected with a view to the best possible results and conservation of the students' best interests.

Lockers. Each student will be assigned a locker on entering and will be required to supply himself with one combination lock as prescribed by the School. Locks are \$1.00 each.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

Following is an itemized estimate of the average expenses of a full-time student in the School of Dental and Oral Surgery for the academic year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are of course variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year, and can be accepted as applicable for the year 1937-1938 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$545	\$545
Room	180	144
Board	252	200
Books	30	20
Instruments (see below)	120	100
Laundry	40	28
	<hr/> \$1,167	<hr/> \$1,037

The approximate cost of instruments for the four-year course is as follows: first year, \$115; second year, \$275; third year, \$140; fourth year, \$25. In addition, the microscope required at the beginning of the course will cost between \$60 and \$160. The cost of books will vary, depending upon the choice made from the selection offered. Instruments are payable at the opening of the school year.

EXAMINATIONS AND STANDING

Final examinations are held at the end of the course, and reexaminations for students with conditions are held within one month after the close of the regular academic year.

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, reexamination required; Inc, incomplete, completed work must be submitted within the time limit set by the instructor. One reexamination will be allowed in a course graded F; if the examination is passed the grade will be C.

No student will be recommended for the degree of Doctor of Dental Surgery until he has completed all the required practical work and passed satisfactory examinations in all the subjects of the entire course.

CONDITIONS FOR ADVANCEMENT

Advancement will be granted to such students as have received passing grades in all subjects.

A student who has failed in any one of his courses is not allowed to go on with his class until he has removed that failure to the satisfaction of the head of the

department. A student who has failed two courses in the first year may be allowed reëxamination in the failed courses provided that the failures do not comprise any two out of the three following courses: gross anatomy, physiology, and biological chemistry. A student who has failed in two courses of the second, third, or fourth years may be allowed reëxamination in the two failed courses provided the failed subjects do not include operative dentistry, prosthetic dentistry, or crown and bridge work, and that the total hours of the two courses failed do not exceed one third of the total course hours for that year.

Students who receive conditions or failures amounting to one-third or more of the year's work must repeat the work of the entire year if allowed to reregister. A student may repeat an entire year only once during his dental course and may not repeat any other year later, unless the Faculty of the School votes to suspend this rule on recommendation of the class Faculty under which the student has been working.

The class Faculties have general supervision of students' work and the application of these regulations to individual cases. The Faculty reserves the right to refuse readmission to any student who, upon recommendation of his class Faculty, is believed to be unsuited to the conditions of study and advancement in the School. The Faculty reserves the right to amend the schedule of studies from time to time at its discretion, without further notice.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character, and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York.

All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 per cent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over

nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming such citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate.

Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examinations or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize to be known as the Ella Maria Ewell Medal will be awarded annually to that student of the School of Dental and Oral Surgery who may, in the judgment of the Faculty, be most proficient in some subject of dentistry. The branch of dentistry for which the award is made will be determined by the executors of the will of Glover C. Beckwith-Ewell.

Beginning on Alumni Day in 1936, the Alumni Association has made an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

OMICRON KAPPA UPSILON

Epsilon Epsilon Chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this

organization is to recognize and honor scholarship and especially character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to juniors and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS

President, MANUEL M. MASLANSKY, D.D.S.

Vice-President, BENJAMIN B. KAMRIN, D.D.S.

Secretary, JOHN J. MAYERS, D.D.S.

Treasurer, GEORGE TRATTNER, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to the Board of Governors of Columbia Alumni Federation, DRs.
JOSEPH SCHROFF, BENJAMIN B. KAMRIN, and RAYMOND M. BRISTOL.

Any graduate, former student, member of the Faculty, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

<i>Subject</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Sessions</i>	<i>Credits</i>	<i>Academic Hours</i>
FRESHMAN YEAR:				
Anatomy, gross	5	10	15	300
Anatomy, microscopic	4	4	8	160
Anatomy, oral	1	5	6	160
Biochemistry	4	4	8	160
Histology, oral		2	2	60
Neurology	2	2	4	80
Physiology	7	4	11	190
Prosthetics	1	2	3	70
			57	1,180
SOPHOMORE YEAR:				
Bacteriology	4	3	7	130
Crown and bridge	1	4	5	130
Operative dentistry	2	8	10	260
Pathology	4	5	9	190
Pharmacology	4	2	6	100
Physical properties		2	2	60
Preventive dentistry	2		2	20
Prosthetic dentistry	2	8	10	260
Psychopathology	1		1	10
Radiology	1		1	10
Surgery, oral	2		2	20
			55	1,190
JUNIOR YEAR:				
Anatomy	1		1	10
Bacteriology	1		1	10
Crown and bridge				
Technic	1	5	6	160
Porcelain		2	2	60
Round wire		1	1	30
Diagnosis, dental	3	1	4	60
Operative dentistry	1	10	11	310
Orthodontics	2	3	4	110
Pathology, oral	3	2	5	90
Periodontia		1	1	30
Pharmacology, applied	1		1	10
Preventive dentistry	1		1	10
Prophylaxis, dental		1	1	30
Prosthetic dentistry	1	5	6	160
Radiology	1	1	1	30
Surgery, oral	1	1	2	40
Theory and practice	1		1	10
			49	1,160
SENIOR YEAR:				
Crown and bridge	1	7	8	220
Dentistry for children	1	3	4	100
Diagnosis, dental		1	1	30
Operative dentistry	2	13	15	410
Periodontia	2	1	2	50
Practice of medicine	6	1	7	90
Prosthetic dentistry	2	6	8	200
Public health	1		1	10
Surgery, oral	7	1	3	100
Theory and practice	2		2	20
			51	1,230

COURSES OF INSTRUCTION

For purposes of instruction the work of each year is scheduled in three trimesters, which are designated as First, Second, and Third. The unit of credit used is the trimester credit, which signifies approximately three academic hours of work a week for one trimester. For classroom work this means one hour in class a week and an average of two hours of home work. For laboratory or clinical work requiring no outside study it represents three hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 200 are open to candidates for the degree of Doctor of Dental Surgery in the first and second years. Courses numbered from 200 upward are open to candidates for the Doctor of Dental Surgery in the third and fourth years.

Beginning in 1937-1938, each senior will be required to present a thesis representing original reading, scientific research, or both. This shall be completed under the immediate supervision of Associate Dean HOLLIDAY, and with the help of an adviser in the field selected.

Members of the fourth year class will also be required to take a comprehensive examination, which will be given near the end of the academic year, and the results of which will be considered as one of the indications of the fitness of the candidates for graduation.

The outline on page 28 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

ANATOMY

Anatomy 101—Oral anatomy. A total of 160 hours. First year. 6 trimester credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the growth and development of the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Three hours a week for two trimesters. First year. 2 trimester credits. Professors BODECKER and APPLEBAUM and Dr. LEFKOWITZ.

Lectures and laboratory work on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150F—Microscopic anatomy. Sixteen hours a week First Trimester. First year. 8 trimester credits. Professors P. E. SMITH, CARPENTER, COPENHAVER, ENGLE, SEVERINGHAUS, and assistants.

Lectures, conferences, and laboratory.

This course is the same as the Medical School course *Anatomy 101F*.

Anatomy 151FS—Gross anatomy. A total of 300 hours First and Second Trimesters. First year. 15 trimester credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

Anatomy 252F—Anatomy of the head and neck. One hour lecture and demonstration a week for one trimester. Third year. 1 trimester credit. Professor ROGERS and Dr. SHAPIRO.

A review course, with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151F—General medical bacteriology and immunology. Nine hours a week First Trimester. Second year. 3 trimester credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152F—Principles of epidemiology, infection, immunity, serum diagnosis, and therapy. Four hours a week First Trimester. Second year. 4 trimester credits. Professor GAY and staff.

Lectures given to the dental and medical students together.

Bacteriology 253T—Bacteriology and etiology of dental disease. One hour a week Third Trimester. 1 trimester credit. Third year. Professor ROSEBURY.

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150ST—Introductory biological chemistry. Two hours lecture and six hours laboratory a week Second and Third Trimesters. 8 trimester credits. Professor KARSHAN and assistants.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. One hour lecture a week for one trimester and approximately 120 hours of technic. Second year. 5 trimester credits. Professors HOYT and G. P. SMITH, Drs. WOODRUFF and SCHWENDENER.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. One hour lecture a week for one trimester and approximately 150 hours of technic. Third year. 6 trimester credits. Professors HOYT and G. P. SMITH, Drs. WOODRUFF and SCHWENDENER.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on models and green teeth.

Crown and Bridge 207—Porcelain technic. Approximately 60 hours of technic. Third year. 2 trimester credits. Professor McLAUGHLIN, Drs. McKENZIE and DOSCHER.

Uses of porcelain. Construction of porcelain jacket crown on technic model. Staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Approximately 30 hours of technic. Third year. 1 trimester credit. Professor GILLETT.

Lectures and laboratory work in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. One hour lecture a week for one trimester. Fourth year. 1 trimester credit. Professor HOYT.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Approximately 210 hours of clinical practice. Fourth year. 7 trimester credits. Professors CRAWFORD, HOYT, G. P. SMITH, McLAUGHLIN, and Dr. BOYD.

Construction of crown and bridgework for patients.

DENTISTRY FOR CHILDREN

Dentistry for Children 202—Dentistry for children lecture. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor McBEATH and assistants.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child and the application of present knowledge of preventive dentistry.

Dentistry for Children 203—Dentistry for children clinic. Three hours a week for three trimesters. Fourth year. 3 trimester credits. Professor McBEATH and assistants.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture. One hour a week for three trimesters. Third and fourth years. 3 trimester credits. Professors ZISKIN and LEONARD.

Lecture and conference course in oral examination and charting, history taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal dysharmonies.

Diagnosis 213a-213b—Dental diagnosis clinic. A total of 60 hours. Third and fourth years. 2 trimester credits. Professor ZISKIN and clinical staff.

213a. Clinical practice and demonstrations in oral examination and charting, pulp testing, and dental X-ray diagnosis.

213b. Continuation of *Diagnosis 213a* with additional work in history taking and the study of occlusal dysharmonies.

HYGIENE AND PROPHYLAXIS

Hygiene 121—Hygiene and prophylaxis. Three hours a week for one trimester. Second year. 1 trimester credit. Professor HUGHES, Miss HOLLIS, and assistants.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

NEUROLOGY

Neurology 150—Neuro-anatomy. Two hours lecture and six hours laboratory a week for one trimester. First year. 4 trimester credits. Professors ELWYN, STRONG, BRICKNER, Drs. SALZER and LYONS.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Neurology 101* in the Medical School.

OPERATIVE DENTISTRY

Operative Dentistry 131—Operative dentistry technic. A total of 240 hours in three trimesters. Second year. 8 trimester credits. Professors HARTMAN, BUCHBINDER, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

Lectures and laboratory work on operative instruments and materials, their care and uses, root canal technic and the technic of cavity preparations and fillings.

Operative Dentistry 132—Operative dentistry lectures. One hour a week for two trimesters. Second year. 2 trimester credits. Professor HARTMAN and assistants.

Lectures on laboratory procedure in operative dentistry.

Operative Dentistry 233—Operative dentistry lectures. One hour a week for one trimester. Third year. 1 trimester credit. Professor HARTMAN.

Lectures and conferences on operative dentistry procedures.

Operative Dentistry 234—Operative dentistry technic and clinic. Approximately 300 hours. Third year. 10 trimester credits. Professors HARTMAN, BUCHBINDER, OMAN, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

The technic of gold inlay, porcelain inlay, and root canal procedures, and clinical practice and demonstrations.

Operative Dentistry 235—Operative dentistry lectures. One hour a week for two trimesters. Fourth year. 2 trimester credits. Professor HARTMAN.

Conference course on problems in operative dentistry.

Operative Dentistry 236—Operative dentistry clinic. Approximately 390 hours. Fourth year. 13 trimester credits. Professors HARTMAN, BUCHBINDER, OMAN, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

Clinical practice and demonstrations in operative dentistry.

ORTHODONTICS

Orthodontics 241—Orthodontic technic. Sixty hours laboratory work. Third year. 2 trimester credits. Professors BARBER and MURPHY and Dr. GALTON.

Laboratory instruction in free-hand soldering, the fundamental technic of making appliances and space retainers.

Orthodontics 242—Orthodontic lectures and demonstrations. Two hours lecture a week for one trimester and a total of 30 hours of demonstrations in the clinic. Third year. 2 trimester credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, Drs. JACKSON and RANS.

Orthodontic fundamentals with special emphasis on preventive malocclusion by early recognition and correction of the predisposing factors.

PATHOLOGY

Pathology 150FS—General and special pathology. Two hours lecture and nine hours laboratory a week First Trimester and one hour lecture and six hours laboratory a week Second Trimester. Second year. 9 trimester credits. Professors JOBLING and KESTEN and assistants.

Lectures and laboratory.

This course covers the subject matter of *Pathology 101FS* in the Medical School but in abbreviated form.

Pathology 246—Oral pathology. One hour a week lecture for three trimesters. Three hours laboratory a week for two trimesters. Third year. 5 trimester credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

PERIODONTIA

Periodontia 251a-251b—Periodontia clinic. Sixty hours. 251a—third year; 251b—fourth year. 2 trimester credits. Professors W. B. DUNNING, LEONARD, HIRSCHFELD, and HOLLIDAY.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontia 252a-252b—Periodontia lectures. One hour a week for two trimesters. Fourth year. 1 trimester credit. Professors LEONARD and HIRSCHFELD.

252a. Lectures and conferences on the theory and practice of periodontia.

252b. Demonstrations of gingival symptoms.

PHARMACOLOGY

Pharmacology 150—General pharmacology. One lecture, one conference, and one three-hour laboratory period for two trimesters. Second year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, BLACKBERG, and HUMBERT.

Lectures and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. One hour a week for one trimester. Third year. 1 trimester credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSICAL PROPERTIES OF DENTAL MATERIALS

Physical Properties 126—Physical properties of dental materials. Three hours a week for two trimesters. Second year. 2 trimester credits. Professor CRAWFORD.

Metallurgical processes and apparatus. Physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory work.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Two hours lecture, one hour conference, and six hours laboratory a week, Second and Third Trimesters, plus one hour lecture a week in oral physiology Third Trimester. First year. 11 trimester credits. Professor WILLIAMS and assistants.

This course is equivalent to *Physiology 101* in the Medical School, with medical and dental students taking the lectures together, plus a series of lectures in oral physiology for the dental students.

PRACTICE OF MEDICINE

Practice of Medicine 278—General survey of medicine. Two hours a week for three trimesters. Fourth year. 6 trimester credits. Professor McBEATH and associates.

Lectures, conferences, and clinics covering phases of general medicine pertinent to dentistry.

Practice of Medicine 279—Medico-dental clinic. A total of 30 hours of clinic in three trimesters. Fourth year. 1 trimester credit. Professor McBEATH and associates.

Clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

PREVENTIVE DENTISTRY AND PUBLIC HEALTH

Preventive Dentistry 122—Preventive dentistry lectures. Two hours a week for one trimester. Second year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on the application of bacteriology, physiology, and biochemistry to preventive dentistry.

Public Health 222—Community dentistry lectures. One hour a week for one trimester. Third year. 1 trimester credit. Professor LEONARD.

Lectures and conferences on community dentistry.

Public Health 224—Public health lectures. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor LEONARD.

A course of lectures and conferences on public health practice.

PROSTHETIC DENTISTRY

Prosthetics 155—Prosthetic lectures and technic. One hour lecture a week for one trimester, and approximately 60 hours of technic. First year. 3 trimester credits. Professors YOUNG, McLAUGHLIN, RALSTON, Drs. McKENZIE and DOSCHER.

Lectures on the history and manipulation of materials used in prosthetic dentistry, and technical procedures in full denture construction.

Prosthetics 157—Prosthetic lectures and technic. One hour lecture a week for two trimesters, and approximately 240 hours of technic. Second year. 10 trimester credits. Professors YOUNG, RALSTON, McLAUGHLIN, Drs. McKENZIE and DOSCHER.

Technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. One hour a week for one trimester. Third year. 1 trimester credit. Professor CRAWFORD.

Examination, classification, application of anatomical considerations and clinical procedure in full denture construction.

Prosthetics 261—Prosthetic clinic. Approximately 150 hours of clinical practice. Third year. 5 trimester credits. Professors CRAWFORD, YOUNG, RALSTON, and Dr. McKENZIE.

Construction of full and partial dentures for patients.

Prosthetics 262—Prosthetic lectures. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor CRAWFORD.

Clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 263—Prosthetic clinic. Approximately 180 hours of clinical practice. Fourth year. 6 trimester credits. Professors CRAWFORD, GILLET, YOUNG, G. P. SMITH, RALSTON, and Dr. McKENZIE.

Construction of full and partial dentures for patients.

Prosthetics 264—Prosthetic lectures. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor CRAWFORD.

A series of lectures by outstanding local practitioners in the prosthetic field on subjects relating to prosthetic dentistry.

PSYCHIATRY

Psychiatry 150T—Psychopathology. One hour a week Second Trimester. Second year. 1 trimester credit. Professor LAMBERT.

Lectures on the structural basis of the mind; the instincts and emotions; development of the personality; social adjustment, failures in adjustment, compensatory reactions; types of abnormal behavior, emotional, neurotic and personality factors in physical illness; functional disorders with special reference to dental practice. General principles of mental hygiene.

This course is the same as *Psychiatry 101* in the Medical School.

RADIOLOGY

Radiology 165—Oral radiology conference. One hour a week for one trimester. Second year. 1 trimester credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Thirty hours. Third year. 1 trimester credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. One hour a week for two trimesters. Second year. 2 trimester credits. Professor PARKER.

Lectures and conferences on general surgical diseases and the principles of their treatment.

Surgery 270—Oral surgery. One hour a week lecture for one trimester. Third year. 1 trimester credit. Professors PARKER and McCaffrey.

Lectures and conferences on local and general anesthesia and exodontia.

Surgery 271a-271b—Oral surgery clinic. A total of 60 hours. 271a—third year, 1 trimester credit; 271b—fourth year, 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCaffrey, Schroff, Birenbach, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia. Time is also assigned to observation of oral surgical operations and to an organized oral pathology clinic.

Surgery 272—Oral surgery. Two hours a week for two trimesters. Fourth year. 2 trimester credits. Professors H. S. DUNNING and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Surgery 273—Oral surgery. A total of 30 hours. Fourth year. No credit. Professors H. S. DUNNING, BERGER, PARKER, and McCaffrey.

Demonstration of oral and maxillo-facial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics. One hour a week for one trimester. Third year. 1 trimester credit. Professor W. B. DUNNING.

A lecture and conference course with collateral reading on ethics and dental ethics.

Theory and Practice 282—Dental jurisprudence and history. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor GILLET.

A lecture and conference course with collateral reading.

Theory and Practice 283—Dental economics. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor G. P. SMITH.

A lecture and conference course in dental economics and office management.

TEXT BOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Cunningham, *Manual of Practical Anatomy*, \$11.55 a set. Choice of: Cunningham, *Textbook of Anatomy*, \$10.00; Gray, *Anatomy*, \$10.00; Piersol, *Human Anatomy*, \$10.00.

Microscopic anatomy. Choice of: Bailey, *Textbook of Histology*, 9th ed., \$6.00.

Oral anatomy. Diamond, *Dental Anatomy*, 2d revised ed., \$4.00.

BACTERIOLOGY. Gay, et al, *Agents of Disease and Host Resistance*, \$10.00. Reference book: Appleton, *Bacterial Infection*, \$7.00.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$6.50.

CROWN AND BRIDGE. Mimeographed notes furnished by the Department.

HYGIENE. Fones, *Mouth Hygiene*, \$5.00; or Fones, *Preventive Dentistry*, \$2.50.

NEUROLOGY. Choice of: Bailey, *Histology*, 6th or 7th ed.; Ranson, *Anatomy of the Nervous System*, \$6.50; Strong, *Neuro-Anatomy*, \$1.50.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, 4 vols., \$12.00. Mimeographed notes are also furnished by the Department.

PATHOLOGY. McCallum, *Pathology*, \$10.00.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Cushny, *Pharmacology and Therapeutics*, \$6.50; Sollmann, *Manual of Pharmacology*, \$7.50.

PHYSICAL PROPERTIES OF DENTAL MATERIALS. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

PRACTICE OF MEDICINE. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.00.

PROSTHETIC DENTISTRY. Recommended but not required: Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50; Turner, *American Textbook of Prosthetic Dentistry*, \$10.00.

PSYCHIATRY. Henderson and Gillespie, *Textbook on Psychiatry*, \$6.00; Hinsie, *Syllabus of Psychiatry*, \$2.50; White, *Introduction to the Study of the Mind*, \$2.00.

RADIOLOGY. Recommended but not required: Ennis, *Dental Roentgenology*, 2d ed., \$6.00; Holliday, *Dental Radiology Handbook*, \$2.00.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00. Blair and Ivy, *Essentials of Oral Surgery*, \$6.50; De Costa, *General Surgery*, \$10.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Flagg, *Art of Anesthesia*, \$5.00; Stout, *Human Cancer*, \$10.00.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50; Stedman, *Medical Dictionary*, \$7.50.

ACADEMIC CALENDAR

For other dates refer to the regular Academic Calendar

1937

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee.

- September 13 Monday, to September 15, Wednesday. For undergraduate dental students.
- October 4 Monday, and October 5, Tuesday. For candidates for the certificate of proficiency.
-

- September 16 Thursday. Classes begin for undergraduates.
- October 6 Wednesday. Classes begin for candidates for the certificate of proficiency.
- October 12 Tuesday. Columbus Day. Not a University holiday.
- November 2 Tuesday. Election day. Holiday.
- November 25 Thursday. Thanksgiving. Holiday.
- November 29 Monday. Second Trimester begins, second year.
- December 1 Wednesday. Second Trimester begins, first and fourth years.
- December 3 Friday. Second Trimester begins, third year.
- December 22 Wednesday to

1938

- January 4 Tuesday, inclusive. Christmas holidays.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SPRING SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee.

- January 11 Tuesday, to January 17, Monday. For undergraduate dental students.
- April 5 Monday and April 6, Tuesday. For candidates for the certificate of proficiency.
-

- February 12 Saturday. Alumni Day. Not a University holiday.
- February 21 Monday. Third Trimester begins, second year.
- February 22 Tuesday. Washington's Birthday. Holiday.
- February 28 Monday. Third Trimester begins, first and fourth years.
- March 4 Friday. Third Trimester begins, third year.
- April 14 Thursday. Last day for filing application or renewal of application for the degree of D.D.S. or for the certificate to be conferred in June. The privilege of later application may be granted on payment of a late fee.
- Thursday to April 16, Saturday, inclusive. Easter holidays.

May	14	Saturday. Classes end, first and fourth years.
May	16	Monday. Final examinations begin, first and fourth years.
May	21	Saturday. Classes end, second and third years.
May	23	Monday. Final examinations begin, second and third years.
May	30	Monday. Memorial Day. Holiday.

COMMENCEMENT, MAY 29 TO JUNE 1

May	29	Sunday. Baccalaureate Service.
June	1	Wednesday. Conferring of degrees.

Columbia University

BULLETIN OF INFORMATION

Thirty-eighth Series, No. 31

July 16, 1938

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1938-1939



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NEW YORK

Columbia University Bulletin of Information

Thirty-eighth Series, No. 31

July 16, 1938

Issued at Columbia University, Morningside Heights, New York, N. Y., weekly from mid-December for thirty-eight consecutive issues. Entered as second-class matter December 22, 1936, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized. These include:

1. Reports of the President and Treasurer to the Trustees.
2. The Catalogue Number, Directory Number, and the Announcements of the several Colleges, Schools, and Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent without charge upon application to the Secretary of the University.

C.U.P. 6,800—1938.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to The School of Dental and Oral Surgery, 630 West 168th Street; telephone Wadsworth 3-2500.

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

FOR THE WINTER AND SPRING SESSIONS

1938-1939



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS OF THE FACULTY

NICHOLAS MURRAY BUTLER, LL.D. (Cantab.), D.Litt. (Oxon.), Hon.D., (Paris)
President of the University
WILLARD COLE RAPPLEYE, A.M., M.D. *Dean*
HOUGHTON HOLLIDAY, A.B., D.D.S. *Associate Dean and Secretary of the Faculty*

FACULTY

ADOLPH BERGER	MILO HELLMAN
CHARLES F. BODECKER	HOUGHTON HOLLIDAY
LESTER R. CAHN	ANNA V. HUGHES
HANS T. CLARKE	JAMES W. JOBLING
WILLIAM H. CRAWFORD	MAXWELL KARSHAN
SAMUEL R. DETWILER	HAROLD J. LEONARD
HENRY S. DUNNING	CHARLES C. LIEB
WILLIAM B. DUNNING	EWING C. McBEATH
FREDERICK P. GAY	WILLARD C. RAPPLEYE
HENRY W. GILLET	LEUMAN M. WAUGH
MAGNUS I. GREGERSEN	HORATIO B. WILLIAMS
LEROY L. HARTMAN	DANIEL E. ZISKIN

OFFICERS OF INSTRUCTION

EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922. [Oral Histology]

HENRY ULYSSES BARBER, JR. *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1916. [Orthodontics]

HENRY ARTHUR BARTELS *Assistant Professor of Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927. [Oral Pathology]
Assistant Bacteriologist, Division of Laboratories and Research, State
Department of Health; Attending Dental Surgeon, Bryson Day Nursery.

ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon,
Presbyterian Hospital.

SAMUEL BIRENBACH *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Surgery]
Visiting Oral Surgeon, Morrisania Hospital; Associate Oral Surgeon,
Beth Israel Hospital; Attending Oral Surgeon, St. John's Hospital.

CHARLES FRANCIS BODECKER *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Oral Histology]

- RICHARD M. BRICKNER *Assistant Professor of Neurology*
B.S., Columbia, 1921; M.D., 1923.
- MAURICE BUCHBINDER *Associate Professor of Dentistry*
B.S., College of the City of New York, 1917; D.D.S., Columbia, 1925. [Operative]
- LESTER RICHARD CAHN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Pathology]
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE SAMUEL CALLAWAY *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1923. [Orthodontics]
Attending Orthodontist, Fifth Avenue Hospital, Polyclinic Hospital.
- RUSSELL LE GRAND CARPENTER *Assistant Professor of Anatomy*
B.S., Tufts, 1924; Ph.D., Harvard, 1928.
- HANS THACHER CLARKE *Professor of Biological Chemistry*
B.Sc., London, 1908; D.Sc., 1913.
Consultant in Biological Chemistry, Presbyterian Hospital.
- KENNETH STEWART COLE *Associate Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Assistant Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- WILLIAM HOPKINS CRAWFORD *Professor of Dentistry*
D.D.S., Minnesota, 1923. [Prosthetics]
Attending Dental Surgeon, Presbyterian Hospital.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S., 1931.
Consultant in Anatomy, Presbyterian Hospital.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914. [Oral Anatomy]
Consultant in Dentistry, Hawthorne Institute.
- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; [Oral Surgery]
B.S., New York University, 1915.
Attending Oral Surgeon, Presbyterian, Sloane, Babies, and Fifth Avenue Hospitals, and Vanderbilt Clinic; Consulting Oral Surgeon, Knickerbocker, Nassau, Roosevelt, St. Vincent's, St. Luke's, Mary Immaculate, Jamaica, Norwalk, State Reconstruction, West Haverstraw, Stamford, United Port Chester, North Hudson, Meadowbrook, and Hackensack General Hospitals, Hospital for Ruptured and Crippled, and National Hospital for Speech Disorders.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895. [Periodontology]
Director of the Department of Dentistry, New York Orthopaedic Dispensary and Hospital.
- ADOLPH ELWYN *Associate Professor of Neurology*
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Associate Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- FREDERICK PARKER GAY *Professor of Bacteriology*
A.B., Harvard, 1897; M.D., Johns Hopkins, 1901; Sc.D., George Washington, 1932.
Bacteriologist, Presbyterian Hospital.
- HENRY WEBSTER GILLET *Professor of Dentistry*
D.M.D., Harvard, 1885. [Prosthetics]
- MAGNUS INGSTRUP GREGERSEN *Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.

- LEROY LEO HARTMAN** *Professor of Dentistry*
D.D.S., Northwestern, 1913; Sc.D., 1936. [Operative]
Attending Dental Surgeon, Presbyterian Hospital.
- MILO HELLMAN** *Professor of Dentistry*
D.D.S., Pennsylvania, 1905; Sc.D., 1933. [Orthodontic Research]
- ISADOR HIRSCHFELD** *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902. [Periodontology]
Chief, Periodontia Department, Beth Israel Hospital; Attending Dental
Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint
Diseases.
- HOUGHTON HOLLIDAY** *Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917. [Radiology]
Attending Dental Surgeon, Presbyterian Hospital.
- EARLE BANKS HOYT** *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1918. [Prosthetics]
- ANNA VERONICA HUGHES** *Professor of Dentistry*
D.M.D., Tufts, 1909. [Courses for Dental Hygienists]
Director of Courses for Dental Hygienists.
- JAMES WESLEY JOBLING** *Professor of Pathology*
M.D., Tennessee Medical, 1897.
Pathological Director, Presbyterian Hospital; Consulting Pathologist, Sloane Hospital.
- MAXWELL KARSHAN** *Associate Professor of Biological Chemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- HOMER D. KESTEN** *Assistant Professor of Pathology*
B.S., Wisconsin, 1920; M.S., 1921; M.D., Columbia, 1924.
Assistant Attending Pathologist, Presbyterian Hospital.
- BARRY GRIFFITH KING** *Assistant Professor of Physiology*
A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.
- HAROLD JUDSON LEONARD** *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915. [Periodontology]
Attending Dental Surgeon, Presbyterian Hospital.
- NOLAN DON CARPENTIER LEWIS** *Professor of Psychiatry*
M.D., Maryland, 1914.
Director, Psychiatric Institute and Hospital; Director and Attending Psychiatrist, Vanderbilt
Clinic; Consultant in Psychiatry, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB** *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906
Consultant in Pharmacology, Presbyterian and Mount Sinai Hospitals.
- GEORGE FRANK LINDIG** *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924. [Operative]
- JOSEPHINE EMILY LUHAN** *Assistant Professor of Dentistry*
D.D.S., New York College of Dental and [Courses for Dental Hygienists]
Oral Surgery, 1912.
- EWING CLEVELAND McBEATH** *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921. [Children's Dentistry]
- FRANCIS STEPHEN McCAFFREY** *Associate Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon,
Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Consulting Oral Surgeon,
Manhattan State Hospital.

- DONALD JOHN W. McLAUGHLIN *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1926. [Prosthetics]
- LOIS COFFEY MOSSMAN *Associate Professor of Education*
B.S., Columbia, 1911; A.M., 1920; Ph.D., 1924. (Teacher's College)
- EDWARD GERALD MURPHY *Assistant Professor of Dentistry*
D.D.S., Michigan, 1924. [Orthodontics]
- CARL REUBEN OMAN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1914. [Operative]
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914. [Oral Surgery]
Attending Oral Surgeon, City Hospital; Assistant Attending Oral Surgeon,
Babies Hospital and Vanderbilt Clinic; Consultant in Oral Surgery, Swedish, Vassar, and Grasslands
Hospitals; Consulting Oral Surgeon, Yonkers General Hospital and Lawrence Hospital, Bronxville.
- FRANK HENRY PIKE *Associate Professor of Physiology*
A.B., Indiana, 1903; Ph.D., Chicago, 1907.
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
D.D.S., Marion Sims Dental College, 1903. [Prosthetics]
Assisting Attending Dental Surgeon, Presbyterian Hospital.
- WILLARD COLE RAPPLEYE *Dean and Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922.
Dean, College of Physicians and Surgeons; Director, New York Post-Graduate Medical School.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Associate Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1929; [Children's Dentistry]
D.D.S., Columbia, 1930.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
D.D.S., 1922.
Oral Surgeon, O.P.D., Mount Sinai Hospital; Attending Oral Surgeon, Jewish Memorial
Hospital; Associate Attending Dental Surgeon, Presbyterian Hospital.
- ERNEST LYMAN SCOTT *Associate Professor of Physiology*
B.S., Ohio Wesleyan, 1902; M.S., Chicago, 1911; Ph.D., Columbia, 1914.
- AURA EDWARD SEVERINGHAUS *Assistant Professor of Anatomy*
B.S., Columbia, 1916; A.M., 1919; Ph.D., 1929.
- GILBERT PERCIVAL SMITH *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
Associate Consultant in Anatomy, Presbyterian Hospital.
- LEWIS RIDDELL STOWE *Associate Professor of Dentistry*
D.D.S., Minnesota, 1916. [Children's Dentistry]
Assisting Attending Dental Surgeon, Presbyterian Hospital;
Attending Dental Surgeon, Babies Hospital; Consultant in Dental and Oral Surgery, Neurological
Institute.

ARTHUR CRANSTON TOTTEN *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1926. [Orthodontics]

LEUMAN MAURICE WAUGH *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Orthodontics]
Consultant in Orthodontics, New York Orthopaedic Dispensary and
Hospital and New York Infirmary for Women and Children.

HORATIO BURT WILLIAMS *Dalton Professor of Physiology*
A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
Consultant in Physiology, Presbyterian Hospital; Consulting Physician, Greenwich Hospital;
Consultant, Neurological Institute.

HARRY ALLEN YOUNG *Assistant Professor of Dentistry*
D.D.S., Indiana, 1919. [Prosthetics]

DANIEL E. ZISKIN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1917. [Diagnosis]
Associate Attending Dental Surgeon, Presbyterian Hospital.

ROBERT ALEXANDER, B.S., D.D.S. *Assistant in Dentistry*
Clinical Assistant in Oral Surgery, New York Polyclinic Hospital. [Oral Pathology]

HOWARD T. APPLGATE, D.D.S. *Assistant in Dentistry*
Assistant Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]

HERBERT DELBERT AYERS, JR., A.B., D.D.S. *Assistant in Dentistry*
Clinical Assistant, Queens General Hospital. [Oral Anatomy]

WILLIAM WELLS BAADÉ, D.D.S. *Assistant in Dentistry*
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]

WALTER REGINALD BEAVEN, D.D.S. *Instructor in Pharmacology*

FRANK E. BEUBE, L.D.S., D.D.S. *Instructor in Dentistry*
[Periodontology]

RICHARD BING, A.B., M.D. *Instructor in Physiology*

NORMAN WINGATE BOYD, B.S., D.D.S. *Assistant in Dentistry*
[Prosthetics]

KENNETH FULTON CHASE, D.M.D. *Instructor in Dentistry*
Consulting Dental Surgeon, New York Eye and Ear Infirmary;
Clinical Assistant, Roosevelt Hospital. [Oral Surgery]

J. FRANCES COBBAN, R.N. *Special Lecturer in Dentistry*
[Courses for Dental Hygienists]

ROBERT CYRIL DEVINE, B.S., D.D.S. *Instructor in Dentistry*
Resident Dentist, New York State Psychiatric Institute and Hospital. [Oral Surgery]

FREDERICK SCHULKEN DOSCHER, B.S., D.D.S. *Assistant in Dentistry*
[Oral Surgery]

JACOB ERDREICH, D.M.D. *Assistant in Dentistry*
Clinical Assistant, New York Post-Graduate Hospital. [Oral Anatomy]

GEORGE BOYD FINCH, B.S., D.D.S. *Assistant in Dentistry*
[Operative]

- ABRAHAM FIRESTONE, A.B., M.D. *Instructor in Anatomy*
Assistant Urologist, Mount Sinai Hospital.
- GENEVIEVE FOLEY, A.M. *Assistant in Bacteriology*
- HERBERT PHILIP FRITZ, B.S., D.D.S. *Assistant in Dentistry*
[*Operative*]
- HARRY ALLEN GALTON, D.D.S. *Instructor in Dentistry*
[*Orthodontics*]
- BENJAMIN WILLIAM GLICK, A.M., M.D. *Instructor in Anatomy*
Adjunct Surgeon, City Hospital; Clinical Assistant in Surgery, Mount Sinai Hospital.
- ISIDORE HARRY GOLDBERGER, M.D. *Special Lecturer in Dentistry*
[*Courses for Dental Hygienists*]
Assistant Clinical Professor of Pediatrics, New York University and Bellevue Hospital Medical College; Assistant Director of Health Education, Board of Education, New York City; Attending Pediatricist, Willard Parker Hospital; Associate Attending Pediatricist, Home for Hebrew Infants; Consulting Pediatricist, Morrisania General Hospital.
- MASON M. GUEST, A.B. *Instructor in Physiology*
- IRVING R. HARDY, D.M.D. *Special Lecturer in Dentistry*
[*Prosthetics*]
- EDWARD HODNETT, Ph.D. *Lecturer in English*
[*Columbia College*]
- BRUCE MACLEAN HOGG, A.M., M.D. *Instructor in Surgery*
- KATHERINE FLORENCE HOLLIS *Instructor in Dentistry*
[*Courses for Dental Hygienists*]
- MELVILLE HUMBERT, A.B., B.S., D.D.S. *Instructor in Pharmacology*
- IRVIN L. HUNT, JR., D.D.S. *Instructor in Dentistry*
[*Operative*]
- LEWIS EDWARD JACKSON, D.D.S. *Instructor in Dentistry*
[*Orthodontics*]
- SAUL W. JARCHO, A.M., M.D. *Instructor in Pathology*
- WILLIAM ROBERT JOULE, D.D.S. *Instructor in Dentistry*
[*Orthodontics*]
- HENRY JUNEMANN, A.B., D.D.S. *Instructor in Dentistry*
[*Prosthetics*]
- EDWARD HENRY KOCH, JR., A.B., D.D.S. *Instructor in Dentistry*
[*Operative*]
- WILLIAM LEFKOWITZ, D.D.S. *Instructor in Dentistry*
[*Oral Histology*]
- JULIUS K. LITTMAN, M.D. *Instructor in Anatomy*
Assistant Adjunct in Surgery, Bronx Hospital.

- L. VOSBURGH LYONS, M.D. *Associate in Neurology*
Attending Neurologist, Neurological Institute, City Hospital, and Vanderbilt Clinic; Consulting
Neurologist, Englewood Hospital and State School for Boys, Warwick, N. Y.
- MORELL DION MCKENZIE, D.D.S. *Instructor in Dentistry*
[Prosthetics]
- JOSEPH L. MCSWEENEY, D.D.S. *Assistant in Dentistry*
Visiting Dental Surgeon, St. Vincent's Hospital. [Oral Surgery]
- EMANUEL A. MANGINELLI, M.D. *Instructor in Neurology*
- HENRY MILCH, A.B., M.D. *Instructor in Anatomy*
Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct
Surgeon, Riverside Hospital.
- MILTON R. MILLER, B.S., D.D.S. *Instructor in Dentistry*
Attending Dental Surgeon, Unity Hospital. [Operative]
- RUTH A. MILLER, Ph.D. *Instructor in Anatomy*
- WILLIAM MILLER, B.S., D.D.S. *Assistant in Dentistry*
[Operative]
- HARRY NEIVERT, M.D. *Instructor in Otolaryngology*
- FERDINAND G. NEUROHR, D.D.S. *Special Lecturer in Dentistry*
[Prosthetics]
- ROBERT W. NORTHROP, D.D.S. *Instructor in Dentistry*
[Oral Surgery]
- ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S. . . . *Special Lecturer in Dentistry*
[Orthodontics]
- E. ELIZABETH PAINTER, A.B. *Instructor in Physiology*
- HENRY JOSEPH POWELL, B.S., D.D.S. *Instructor in Dentistry*
[Diagnosis]
- FREDERICK L. RIGHTS, M.S. *Assistant in Bacteriology*
- BENJAMIN SALZER, M.D. *Instructor in Neurology*
- LOUIS SCHORR, D.D.S. *Special Lecturer in Dentistry*
[Prosthetics]
- GEORGE SCHWENDENER, D.D.S. *Assistant in Dentistry*
[Prosthetics]
- WIRT S. SCOTT, JR., A.B., M.D. *Instructor in Pharmacology*
- ALBIN ROBERT SEIDEL, D.M.D. *Instructor in Dentistry*
Director of Dental Service and Associate Attending Dental Surgeon, [Oral Surgery]
Presbyterian Hospital.
- HARRY H. SHAPIRO, D.M.D. *Instructor in Anatomy*
Attending Dentist, Cornwall Hospital.

- IRVING J. SPERBER, D.D.S. *Special Lecturer in Dentistry*
Attending Dentist, New York Psychiatric Institute and Hospital and Manhattan State Hospital.
- ELIAS L. STERN, B.S., M.D. *Instructor in Anatomy*
Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.
- FERDINAND A. STEWART, JR., A.B., D.D.S. *Instructor in Dentistry*
[*Oral Surgery*]
- BARBARA B. STIMSON, A.B., M.D., Med. Sc.D. *Associate in Surgery*
- HARRY STRUSSER, D.D.S. *Special Lecturer in Dentistry*
- WILLIAM ANTHONY VERLIN, A.B., D.D.S. *Assistant in Dentistry*
[*Prosthetics*]
- GENEVA HASTINGS WALLS *Instructor in Dentistry*
[*Courses for Dental Hygienists*]
- HAROLD S. WOODRUFF, D.D.S. *Instructor in Dentistry*
[*Prosthetics*]
- EDWARD VICTOR ZEGARELLI, A.B., D.D.S. *Instructor in Dentistry*

CLINICAL ASSISTANTS

- | | |
|----------------------------|----------------------------------|
| EDWARD BECKER, D.M.D. | BENNETT M. LATHROP, B.S., D.D.S. |
| RALPH BECKER, B.S., D.D.S. | JESSE L. LEFCOURT, B.S., D.D.S. |
| HARRY DARROW, D.D.S. | THEODORE R. PARKER, D.D.S. |
| SAMUEL R. DRELICH, D.D.S. | GUSTAVE REICH, D.D.S. |
| MARIO FRANZONE, D.D.S. | ESSE ROSE, D.D.S. |
| WARREN S. HOUSTON, D.D.S. | HERBERT F. SILVERS, B.S., D.D.S. |
| HAROLD KILPATRICK, D.D.S. | LESTER A. WOLFSON, D.D.S. |
| DAVID ZEISLER, D.D.S. | |

PRESBYTERIAN HOSPITAL DENTAL SERVICE

ALBIN R. SEIDEL, D.M.D., *Director**Attending Dental Surgeons*

- | | |
|------------------------------------|---------------------------------|
| ADOLPH BERGER, D.D.S. | ISADOR HIRSCHFELD, D.D.S. |
| WILLIAM H. CRAWFORD, D.D.S. | HOUGHTON HOLLIDAY, A.B., D.D.S. |
| LEROY L. HARTMAN, D.D.S., Sc.D. | HAROLD J. LEONARD, B.S., D.D.S. |
| FRANCIS S. McCAFFREY, B.S., D.D.S. | |

Associate Attending Dental Surgeons

- | | |
|------------------------------------|--------------------------|
| LESTER R. CAHN, D.D.S. | ALBIN R. SEIDEL, D.M.D. |
| JOSEPH SCHROFF, B.S., M.D., D.D.S. | DANIEL E. ZISKIN, D.D.S. |

Assisting Attending Dental Surgeons

HOWARD T. APPLGATE, D.D.S.	JOHN F. RALSTON, D.D.S.
WILLIAM W. BAADÉ, D.D.S.	LEWIS R. STOWE, D.D.S.

Interns

ELDON R. WOOLSEY, A.B., D.D.S.	MARTIN R. BOWES, D.D.S.
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PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S., *Attending Oral Surgeon*

COMMITTEES

Administration

Dean RAPPEYE, *Chairman*, Professors BODECKER, CRAWFORD, H. S. DUNNING, HARTMAN, HOLLIDAY, LEONARD, and WAUGH

Curriculum

Professor HOLLIDAY, *Chairman*, Professors BERGER, CAHN, CRAWFORD, HARTMAN, HOYT, LEONARD, and LIEB

Library

Professor HOLLIDAY, *School of Dental and Oral Surgery Representative*

Extension and Graduate Courses

Professor WAUGH, *Chairman*, Professors BERGER, CRAWFORD, and McBEATH

Research

Professor BODECKER, *Chairman*, Professors CAHN, CRAWFORD, KARSHAN, McBEATH, and H. SHAPIRO

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Provost of the University</i>
PHILIP M. HAYDEN, A.M.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Director of University Admissions</i>
CHARLES C. WILLIAMSON, Ph.D., Litt.D.	<i>Director of Libraries</i>
ROGER HOWSON, A.M.	<i>Librarian</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>

FREDERICK MILLER, C.E.	<i>Assistant Director of Buildings and Grounds</i>
REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
HERBERT B. HOWE, A.M.	<i>Director of Men's Residence Halls</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.M.	<i>Alumni Secretary</i>
THOMAS P. FLEMING, M.S.	<i>Medical Librarian</i>

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work; but in 1784 it was reopened as Columbia College. In 1912, the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center where it occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The College of Physicians and Surgeons in which the fundamental science subjects are given adjoins it, the halls of the two being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course in dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments with students of the College of Physicians and Surgeons.

STUDENTS

A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon

all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a nonmatriculated student with permission to attend such courses of instruction as he is qualified to take but not as a candidate for a degree, certificate, or diploma in regular course. Nonmatriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Nonmatriculated students may receive formal statement of the satisfactory completion of any course.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Diplomas are issued at Commencement, in October and February (in the case of the Master of Arts degree, at Commencement, in December and February, or, in the case of the degrees of Doctor of Philosophy, Doctor of Medical Science, Doctor of the Science of Law, and Doctor of Education, upon completion of the requirements; also in August for the degree of Doctor of Dental Surgery and the degree of Bachelor of Science in optometry).

An application for a degree or certificate, other than the degrees of Doctor of Philosophy, Doctor of Medical Science, Doctor of the Science of Law, and Doctor of Education terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school or faculty concerned, may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 75,000 volumes and about 3,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. It has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received approximately 1,000 current journals, and nearby are shelved the bound volumes of the most important journals covering a period of approximately twenty-five years.

A series of lectures on the history of medicine is arranged for by the Library Committee during the school year.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University dormitories at Morningside Heights, and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry, and supplement the special collections available in the College of Physicians and Surgeons, and in the New York Academy of Medicine, Fifth

Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Gymnasium. The Gymnasium is situated on Morningside Heights, and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education who is assisted by a corps of able instructors.

Employment. The Appointments Office located in Alumni House is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is being operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given each year to each student. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School, and to have all necessary dental work completed. The University Medical Officer, DR. W. H. McCASTLINE, has supervision of all matters affecting the health of the student body.

RESIDENCE HALLS

The University maintains on the Campus at 116th Street or immediately adjacent thereto Residence Halls for men and women, information about which will be furnished on request by the Secretary of the University, 213 Low Memorial Library. The office of the Director of Men's Residence Halls is 125 Livingston Hall.

RESIDENCE BUREAU

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the University Residence Bureau in Alumni House.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University and operated by the Knott Hotels Corporation. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main floor, reached by the Campus entrance, are the offices of the three Religious Counselors. On the upper floor are the offices of the Chaplain of the University and his staff. An auditorium seating 300 people is used by the Department of English and Comparative Literature for dramatic composition and production. The lower floor, entered from Broadway, is occupied by the office of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch in Room B-463 of the College of Physicians and Surgeons. In addition to medical and dental textbooks the store carries a stock of new and used microscopes, laboratory equipment and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6:30 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services, with substantial savings to Columbia students.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$1.25 in cloth and \$.50 in paper. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION, AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application by December 1 in order to be passed upon by the Committee on Admissions at an early date. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is successful completion of three full years at an acceptable college of arts and sciences, which must include successful completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

English composition and literature, 6 semester hours.

Physics, 6 semester hours.

Biology, 6 semester hours.

Chemistry (including an approved course in organic chemistry), 12 semester hours.

Inasmuch as an understanding of the medical sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary, but so difficult to attain in later years.

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

In order that the best selections may be made from among the candidates who are

eligible for admission, all such applicants will be requested to report at the Dean's office for a personal interview some time prior to the final action of the Committee on Admissions. Those who remain on the eligible list after a personal interview will be given an examination as to mechanical ability and manual dexterity. This test will be given at various times during the year. It will consist of exercises in mechanical and free-hand drawing, metal filing, and molding in plastic material, and will be conducted by the technic teachers in the School.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Course in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

Admission to Advanced Standing. Students will not be admitted to advanced standing upon examination, but only upon a satisfactory record from their school of previous residence. Provided they are eligible for the dental student qualifying certificate required by the New York State Department of Education and can submit evidence of the satisfactory completion of the entrance requirements of this school, candidates who have completed, without condition, one or two years of study in a dental school registered in the state of New York including courses equivalent to those given at this school are eligible to apply for admission to the second or third years, respectively. Students applying for admission to the third year must have passed the partial examination of the New York State Board of Dental Examiners.

Owing to the lack of uniformity in the arrangement of the first and second year curricula in the various dental schools a transfer usually can be accomplished with the least adjustment at the end of the second year.

Application blanks may be obtained from the Dean's office.

SUMMER SESSION

No regular courses will be offered during the Summer Session of 1938. Those who have successfully completed all the requirements of the third and fourth years may elect work in clinical practice, without credit, from June 6 to July 15, 1938, subject to the approval of the departments concerned. Students having deficiencies in technical or clinical courses must register for those courses by June 1, 1938. Fees will be charged on the basis of \$10 per trimester credit.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, will arrange courses in the various divisions of dentistry at the request of groups of practitioners whenever the undergraduate teaching schedule will permit. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country, and the applicant must be a member in good standing of his national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized twelve-month course has been given since 1927 to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as qualification for admission. For information regarding the curricula leading to the Master of Arts or the Doctor of Philosophy degrees under these Faculties see the Graduate Announcement.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar, and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$6.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed for dental students:

(a) University Fee

- | | |
|---|---------|
| (1) For each Winter or Spring Session or any part thereof | \$10.00 |
| (2) For each Summer Session or any part thereof | 7.00 |

(b) Tuition Fee	
(1) For the course in dentistry for a Winter or Spring Session in the case of a student enrolled for the full course	250.00
For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.	
(c) Fee for Application	
(1) For a degree	20.00
(2) For a certificate	10.00
(d) Privileges	
(1) Late registration or late application	6.00
(2) Deficiency or special examinations	3.00
(3) Renewal of application for any degree or certificate	1.00
(e) Publications	
(1) For all students, <i>Columbia Dental Review</i>	1.00
(2) For sophomores, juniors, and seniors, junior membership in the American Dental Association	2.00
(f) Engine and Case Rental	
(1) For all except first year students, rental of electric dental engine and two instrument cases	25.00
(g) Rebates	
(1) The University fee and the fee for application for any degree or certificate shall not be subject to rebate.	
(2) After the second Saturday of the Winter or Spring Session, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.	
When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.	
(h) Deposit	20.00
Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic.	

Fee on Admission. The payment of a fee of \$50 is required of every applicant who is accepted. This fee is payable within two weeks after the applicant has been notified that he has been admitted to the School. The applicant should notify the Dean within the two weeks period that he intends to matriculate, and must at that time send a check made payable to Columbia University. When the student registers at the School in September, this fee will be credited toward the tuition for the Winter Session. If he does not register, the fee will not be returned.

Microscopes. All students entering the School of Dental and Oral Surgery are

required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
Oil immersion lens	

The cost of a suitable reconditioned microscope varies from \$60 to \$100 depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp.

Instruments and supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the students' best interests.

Lockers. Each student will be assigned a locker on entering and will be required to supply himself with one combination lock as prescribed by the School. Locks are \$1.00 each.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

Following is an itemized estimate of the average expenses of a full-time student in the School of Dental and Oral Surgery for the academic year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are of course variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year, and can be accepted as applicable for the year 1938-1939 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$568	\$568
Room	200	170
Board	300	250
Books	60	30
Instruments (see below)	160	160
Laundry	40	28
	<hr/>	<hr/>
	\$1,328	\$1,206

The approximate cost of instruments for the four-year course is as follows: first year, \$115; second year, \$340; third year, \$140; fourth year, \$30. In addition, the microscope required at the beginning of the course will cost between \$60 and \$157. The cost of books will vary, depending upon the choice made from the selection offered. Instruments are payable at the opening of the school year.

EXAMINATIONS AND STANDING

Final examinations are held at the end of the course, and reexaminations for students with conditions are held within one month after the close of the regular academic year.

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, reexamination required; Inc, incomplete, completed work must be submitted within the time limit set by the instructor. One reexamination will be allowed in a course graded F; if the examination is passed the grade will be C.

No student will be recommended for the degree of Doctor of Dental Surgery until he has completed all the required practical work and passed satisfactory examinations in all the subjects of the entire course.

CONDITIONS FOR ADVANCEMENT

Advancement will be granted to such students as have received passing grades in all subjects. A student who has failed in any one of his courses is not allowed to go on with his class until he has removed that failure to the satisfaction of the head of the department. A student who has failed two courses in the first year may be allowed reexamination in the failed courses provided that the failures do not comprise any two out of the three following courses: gross anatomy, physiology, and biological chemistry. A student who has failed in two courses of the second, third, or fourth years may be allowed reexamination in the two failed courses provided the failed subjects do not include operative dentistry, prosthetic dentistry, or crown and bridge work, and that the total hours of the two courses failed do not exceed one third of the total course hours for that year.

Students who receive conditions or failures amounting to one-third or more of the year's work must repeat the work of the entire year if allowed to reregister. A student may repeat an entire year only once during his dental course and may not repeat any other year later, unless the Faculty of the School votes to suspend this rule on recommendation of the class Faculty under which the student has been working.

The class Faculties have general supervision of students' work and the application of these regulations to individual cases. The Faculty reserves the right to refuse readmission to any student who, upon recommendation of his class Faculty, is believed to be unsuited to the conditions of study and advancement in the School. The Faculty reserves the right to amend the schedule of studies from time to time at its discretion, without further notice.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character, and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four

academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 per cent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming such citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examinations or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a

student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize to be known as the Ella Maria Ewell Medal will be awarded annually to that student of the School of Dental and Oral Surgery who may, in the judgment of the Faculty, be most proficient in some subject of dentistry. The branch of dentistry for which the award is made will be determined by the executors of the will of Glover C. Beckwith-Ewell.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

OMICRON KAPPA UPSILON

Epsilon Epsilon Chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and especially character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to sophomores, juniors, and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS

President, FREDERICK BIRNBERG, D.D.S.

Vice-President, JAMES M. DUNNING, D.D.S.

Secretary, JOHN J. MAYERS, D.D.S.

Treasurer, GEORGE TRATTNER, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to the Board of Governors of Columbia Alumni Federation, DRs. JOSEPH SCHROFF, JOSEPH R. HORN, and MANUEL M. MASLANSKY.

Any graduate, former student, Faculty member, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

<i>Subject</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Sessions</i>	<i>Credits</i>	<i>Academic Hours</i>
FRESHMAN YEAR:				
Anatomy, gross	5	10	15	300
Anatomy, microscopic	4	4	8	160
Anatomy, oral	1	5	6	160
Biochemistry	4	4	8	160
Histology, oral	2	2	2	60
Neurology	2	2	4	80
Physiology	7	4	11	190
Prosthetics	1	2	3	70
			57	1,180
SOPHOMORE YEAR:				
Bacteriology	4	3	7	130
Crown and bridge	1	3	4	100
Oral hygiene	2	2	2	20
Operative dentistry	2	8	10	260
Pathology	4	5	9	180
Pharmacology	4	2	6	100
Physical properties	2	2	2	60
Prophylaxis	1	1	1	30
Prosthetic dentistry	2	8	10	260
Psychopathology	1	1	1	10
Radiology	1	1	1	10
Surgery, oral	2	2	2	20
			55	1,180
JUNIOR YEAR:				
Anatomy, applied	1	1	1	10
Bacteriology	1	1	1	10
Crown and bridge				
Technic	1	5	6	160
Porcelain	2	2	2	60
Round wire	1	1	1	30
Diagnosis, dental	3	1	4	60
Operative dentistry	1	10	11	310
Oral hygiene and social relations	2	2	2	20
Orthodontics	2	3	4	110
Pathology, oral	3	2	5	90
Periodontology	1	1	1	30
Pharmacology, applied	1	1	1	10
Prosthetic dentistry	1	5	6	160
Radiology	1	1	1	30
Surgery, oral	1	1	2	40
Theory and practice	1	1	1	10
			48	1,140
SENIOR YEAR:				
Crown and bridge	1	7	8	220
Dentistry for children	1	3	4	100
Diagnosis, dental	1	1	1	30
Operative dentistry	2	13	15	410
Periodontology	2	1	2	50
Practice of medicine	6	1	7	90
Prosthetic dentistry	2	6	8	200
Surgery, oral	7	1	3	100
Theory and practice	2	2	2	20
			50	1,220

COURSES OF INSTRUCTION

For purposes of instruction the work of each year is scheduled in three trimesters, which are designated as First, Second, and Third. The unit of credit used is the trimester credit, which signifies approximately three academic hours of work a week for one trimester. For classroom work this means one hour in class a week and an average of two hours of home work. For laboratory or clinical work requiring no outside study it represents three hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 200 are open to candidates for the degree of Doctor of Dental Surgery in the first and second years. Courses numbered from 200 upward are open to candidates for the Doctor of Dental Surgery in the third and fourth years.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Each senior is required to present a thesis representing original reading, scientific research, or both. This shall be completed under the immediate supervision of Associate Dean HOLLIDAY, and with the help of an adviser in the field selected.

Members of the fourth year class will also be required to take a comprehensive examination, which will be given near the end of the academic year, and the results will be considered as one of the indications of the fitness of the candidates for graduation.

ANATOMY

Anatomy 101—Oral anatomy. A total of 160 hours. First year. 6 trimester credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the growth and development of the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Three hours a week for two trimesters. First year. 2 trimester credits. Professors BODECKER and APPLEBAUM and Dr. LEFKOWITZ.

Lectures and laboratory work on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150F—Microscopic anatomy. Sixteen hours a week First Trimester. First year. 8 trimester credits. Professors P. E. SMITH, CARPENTER, COPENHAVER, ENGLE, SEVERINGHAUS, and assistants.

Lectures, conferences, and laboratory.

This course is the same as the Medical School course *Anatomy 101F*.

Anatomy 151FS—Gross anatomy. A total of 300 hours First and Second Trimesters. First year. 15 trimester credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

Anatomy 252F—Applied anatomy of the head and neck. One hour lecture and demonstration a week for one trimester. Third year. 1 trimester credit. Professor ROGERS and Dr. SHAPIRO.

A review course, with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151F—General medical bacteriology and immunology. Nine hours a week First Trimester. Second year. 3 trimester credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152F—Principles of epidemiology, infection, immunity, serum diagnosis, and therapy. Four hours a week First Trimester. Second year. 4 trimester credits. Professor GAY and staff.

Lectures given to the dental and medical students together.

Bacteriology 253T—Bacteriology and etiology of dental disease. One hour a week Third Trimester. 1 trimester credit. Third year. Professor ROSEBURY.

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150ST—Introductory biological chemistry. Two hours lecture and six hours laboratory a week Second and Third Trimesters. 8 trimester credits. Professor KARSHAN and assistants.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. One hour lecture a week for one trimester and approximately 90 hours of technic. Second year. 4 trimester credits. Professors HOYT and McLAUGHLIN, Drs. SCHWENDENER and VERLIN.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. One hour lecture a week for one trimester and approximately 150 hours of technic. Third year. 6 trimester credits. Professors HOYT and McLAUGHLIN, Drs. SCHWENDENER and VERLIN.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on models and green teeth.

Crown and Bridge 207—Porcelain technic. Approximately 60 hours of technic. Third year. 2 trimester credits. Professor McLAUGHLIN, Drs. JUNEMANN and VERLIN.

Uses of porcelain. Construction of porcelain jacket crown on technic model. Staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Approximately 30 hours of technic. Third year. 1 trimester credit. Professor GILLET.

Lectures and laboratory work in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. One hour lecture a week for one trimester. Fourth year. 1 trimester credit. Professor HOYT.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Approximately 210 hours of clinical practice. Fourth year. 7 trimester credits. Professors CRAWFORD, HOYT, G. P. SMITH, McLAUGHLIN, Drs. BOYD and WOODRUFF.

Construction of crown and bridgework for patients.

DENTISTRY FOR CHILDREN

Dentistry for Children 202—Dentistry for children lectures and clinic. One hour a week lecture for one trimester and three hours a week clinic for three trimesters. Fourth year. 4 trimester credits. Professors McBEATH, STOWE, and ROSENSTEIN.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry.

Clinical work includes history taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. One hour a week lecture for three trimesters and a total of 30 hours clinic. Third year. 4 trimester credits. Professors ZISKIN and LEONARD and clinical staff.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal dysharmonies.

Diagnosis 213—Dental diagnosis clinic. A total of 30 hours. Fourth year. 1 trimester credit. Professor ZISKIN and clinical staff.

Continuation of *Diagnosis 212* clinic.

HYGIENE AND PROPHYLAXIS

Hygiene 121—Hygiene and prophylaxis. Three hours a week for one trimester. Second year. 1 trimester credit. Professors HUGHES and LUHAN and assistants.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

NEUROLOGY

Neurology 150—Neuro-anatomy. Two hours lecture and six hours laboratory a week for one trimester. First year. 4 trimester credits. Professors ELWYN and BRICKNER, Drs. SALZER, LYONS, and MANGINELLI.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Neurology 101* in the Medical School.

OPERATIVE DENTISTRY

Operative Dentistry 131—Operative dentistry technic. A total of 240 hours in three trimesters. Second year. 8 trimester credits. Professor HARTMAN, Drs. HUNT and M. R. MILLER, and assistants.

Lectures and laboratory work on operative instruments and materials, their care and uses, and the technic of cavity preparations and fillings.

Operative Dentistry 132—Operative dentistry lectures. One hour a week for two trimesters. Second year. 2 trimester credits. Professor HARTMAN and assistants.

Lectures on laboratory procedure in operative dentistry.

Operative Dentistry 233—Operative dentistry lectures. One hour a week for one trimester. Third year. 1 trimester credit. Professors HARTMAN and OMAN.

Lectures and conferences on operative dentistry procedures.

Operative Dentistry 234—Operative dentistry technic and clinic. Approximately 300 hours. Third year. 10 trimester credits. Professors HARTMAN, BUCHBINDER, OMAN, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

The technic of gold inlay, porcelain inlay, and root canal procedures, and clinical practice and demonstrations.

Operative Dentistry 235—Operative dentistry lectures. One hour a week for two trimesters. Fourth year. 2 trimester credits. Professors HARTMAN and BUCHBINDER.

Conference course on problems in operative dentistry and root canal therapy.

Operative Dentistry 236—Operative dentistry clinic. Approximately 390 hours. Fourth year. 13 trimester credits. Professors HARTMAN, BUCHBINDER, OMAN, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

Clinical practice and demonstrations in operative dentistry.

ORAL HYGIENE AND SOCIAL RELATIONS

Oral Hygiene 122—Oral hygiene lectures. One hour a week for two trimesters. Second year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on the application of bacteriology, physiology, and biochemistry to preventive dentistry.

Social Relations 222—Social and economic relations of dentistry. One hour a week for two trimesters. Third year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on community dentistry and public health practice.

ORTHODONTICS

Orthodontics 241—Orthodontic technic. Sixty hours laboratory. Third year. 2 trimester credits. Professors BARBER and MURPHY and Dr. GALTON.

Laboratory instruction in free-hand soldering, the fundamental technic of making appliances and space retainers.

Orthodontics 242—Orthodontic lectures and demonstrations. Two hours lecture a week for one trimester and a total of 30 hours of demonstrations in the clinic. Third year. 2 trimester credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, and Dr. JACKSON.

Orthodontic fundamentals with special emphasis on preventive malocclusion by early recognition and correction of the predisposing factors.

PATHOLOGY

Pathology 150FS—General and special pathology. Two hours lecture and nine hours laboratory a week First Trimester and two hours lecture and five hours laboratory a week Second Trimester. Second year. 9 trimester credits. Professors JOBLING and KESTEN and assistants.

Lectures and laboratory.

This course covers the subject matter of *Pathology 101FS* in the Medical School but in abbreviated form.

Pathology 246—Oral pathology. One hour a week lecture for three trimesters. Three hours laboratory a week for two trimesters. Third year. 5 trimester credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

PERIODONTOLOGY

Periodontology 251a-251b—Periodontology clinic. Sixty hours. *251a*—third year; *251b*—fourth year. 2 trimester credits. Professors W.B. DUNNING, LEONARD, HIRSCHFELD, HOLLIDAY, and Dr. BEUBE.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. One hour a week for two trimesters. Fourth year. 1 trimester credit. Professors LEONARD and HIRSCHFELD.

Lectures and conferences on the theory and practice of periodontology and demonstrations of gingival symptoms.

PHARMACOLOGY

Pharmacology 150—General pharmacology. One lecture, one conference, and one three-hour laboratory period for two trimesters. Second year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, HUMBERT, and SCOTT.

Lectures and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. One hour a week for one trimester. Third year. 1 trimester credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSICAL PROPERTIES OF DENTAL MATERIALS

Physical Properties 126—Physical properties of dental materials. Three hours a week for two trimesters. Second year. 2 trimester credits. Professor CRAWFORD.

Metallurgical processes and apparatus. Physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Two hours lecture, one hour conference, and six hours laboratory a week, Second and Third Trimesters. First year. 11 trimester credits. Professor GREGERSEN and assistants.

This course is equivalent to *Physiology 101* in the Medical School, with medical and dental students taking the lectures together.

PRACTICE OF MEDICINE

Practice of Medicine 278—General survey of medicine. Two hours a week of lectures and conferences for three trimesters, and thirty hours of clinic in three trimesters. Fourth year. 7 trimester credits. Professor McBEATH and associates.

Lectures and conferences covering phases of general medicine pertinent to dentistry. Clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

PROSTHETIC DENTISTRY

Prosthetics 155—Prosthetic lectures and technic. One hour lecture a week for one trimester, and approximately 60 hours of technic. First year. 3 trimester credits. Professors YOUNG, McLAUGHLIN, RALSTON, Drs. McKENZIE and JUNEMANN.

Lectures on the history and manipulation of materials used in prosthetic dentistry, and technical procedures in full denture construction.

Prosthetics 157—Prosthetic lectures and technic. One hour lecture a week for two trimesters, and approximately 240 hours of technic. Second year. 10 trimester credits. Professors YOUNG, RALSTON, McLAUGHLIN, Drs. McKENZIE and JUNEMANN.

Technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. One hour a week for one trimester. Third year. 1 trimester credit. Professor CRAWFORD.

Examination, classification, application of anatomical considerations and clinical procedure in full denture construction.

Prosthetics 261—Prosthetic clinic. Approximately 150 hours of clinical practice. Third year. 5 trimester credits. Professors CRAWFORD, YOUNG, RALSTON, Drs. McKENZIE and JUNEMANN.

Construction of full and partial dentures for patients.

Prosthetics 262—Prosthetic lectures. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor CRAWFORD.

Clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 263—Prosthetic clinic. Approximately 180 hours of clinical practice. Fourth year. 6 trimester credits. Professors CRAWFORD, GILLET, YOUNG, G. P. SMITH, RALSTON, and Dr. McKENZIE.

Construction of full and partial dentures for patients.

Prosthetics 624—Prosthetic lectures. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor CRAWFORD.

A series of lectures by outstanding local practitioners in the prosthetic field on subjects relating to prosthetic dentistry.

PSYCHIATRY

Psychiatry 150T—Psychopathology. One hour a week Second Trimester. Second year. 1 trimester credit. Professor LEWIS.

Lectures in psychobiology; the instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances. Principles of mental hygiene and environmental adjustments.

RADIOLOGY

Radiology 165—Oral radiology conference. One hour a week for one trimester. Second year. 1 trimester credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Thirty hours. Third year. 1 trimester credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. One hour a week for two trimesters. Second year. 2 trimester credits. Professor PARKER.

Lectures and conferences on general surgical diseases and the principles of their treatment.

Surgery 270—Oral surgery. One hour a week lecture for one trimester. Third year. 1 trimester credit. Professors PARKER and McCAFFREY.

Lectures and conferences on local and general anesthesia and exodontia.

Surgery 271a-271b—Oral surgery clinic. A total of 60 hours. 271a—third year, 1 trimester credit; 271b—fourth year, 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia. Time is also assigned to observation of oral surgical operations and to an organized oral pathology clinic.

Surgery 272—Oral surgery. Two hours a week for two trimesters. Fourth year. 2 trimester credits. Professors H. S. DUNNING and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Surgery 273—Oral surgery. A total of 30 hours. Fourth year. No credit. Professors H. S. DUNNING, BERGER, PARKER, and McCAFFREY.

Demonstration of oral and maxillo-facial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics. One hour a week for one trimester. Third year. 1 trimester credit. Professor W. B. DUNNING.

Lecture and conference course with collateral reading on ethics and dental ethics.

Theory and Practice 282—Dental jurisprudence and history. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor GILLET.

Lecture and conference course with collateral reading.

Theory and Practice 283—Dental economics. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor G. P. SMITH.

Lecture and conference course in dental economics and office management.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Cunningham, *Manual of Practical Anatomy*, \$11.55 a set. Choice of: Cunningham, *Textbook of Anatomy*, \$10.00; Gray, *Anatomy*, \$10.00; Piersol, *Human Anatomy*, \$10.00.

Microscopic anatomy. Bailey, *Textbook of Histology*, 9th ed., \$6.00.

Oral anatomy. Diamond, *Dental Anatomy*, 2d revised ed., \$4.00.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology*, \$3.00; *Laboratory Manual and Drawing Notebook*, *Oral Histology and Embryology*, \$1.00.

BACTERIOLOGY. Gay, et al, *Agents of Disease and Host Resistance*, \$10.00. Reference book: Appleton, *Bacterial Infection*, \$7.00.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$8.00.

CROWN AND BRIDGE. Mimeographed notes furnished by the Department.

DENTAL JURISPRUDENCE. Carpenter, *Jurisprudence*.

HYGIENE. Fones, *Mouth Hygiene*, \$5.00; or Fones, *Preventive Dentistry*, \$2.50.

NEUROLOGY. Choice of: Bailey, *Histology*, 6th or 7th ed.; Ranson, *Anatomy of the Nervous System*, \$6.50.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, 4 vols., \$16.00. Mimeographed notes are also furnished by the Department.

PATHOLOGY. MacCallum, *Textbook of Pathology*, \$10.00.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Cushny, *Pharmacology and Therapeutics*, \$6.50; Sollmann, *Manual of Pharmacology*, \$7.50.

PHYSICAL PROPERTIES OF DENTAL MATERIALS. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

PRACTICE OF MEDICINE. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.00.

PROSTHETIC DENTISTRY. Recommended but not required: Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50; Turner, *American Textbook of Prosthetic Dentistry*, \$10.00.

PSYCHIATRY. Henderson and Gillespie, *Textbook on Psychiatry*, \$6.00; Hinsie, *Syllabus of Psychiatry*, \$2.50; White, *Introduction to the Study of the Mind*, \$2.00.

RADIOLOGY. Recommended but not required: Ennis, *Dental Roentgenology*, 2d ed., \$6.00; Holliday, *Dental Radiology Handbook*, \$2.00.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; De Costa, *General Surgery*, \$10.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Blair and Ivy, *Essentials of Oral Surgery*, \$6.50; Flagg, *Art of Anesthesia*, \$5.00; Stout, *Human Cancer*, \$10.00.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50; Stedman, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

1937-1938

FOURTH YEAR—CLASS OF 1938

Adam, T. Holland	New York City	Shapiro, Leonard Benjamin	New York City
A.B., Columbia, 1935		A.B., N.Y.U., 1935	
Aronowitz, Louis Ralph	Brooklyn, N. Y.	Sheckman, Nathan Max	New York City
B.S., Columbia, 1933		B.S., C.C.N.Y., 1933	
A.M., Columbia, 1934		Spitaleri, Joseph Paul	New York City
Bilderback, Edward Joseph	Keyport, N. J.	B.S., St. Francis (N. Y.), 1934	
B.S., Rutgers, 1934		Stone, Leonard David	New York City
Birenbach, Herbert	New York City	B.S., C.C.N.Y., 1934	
B.S., N.Y.U., 1932		Stower, Irving Carl	New York City
Biscow, Edgar Bertrand	New York City	B.S., C.C.N.Y., 1935	
B.S., N.Y.U., 1934		Sulzberg, Sidney	New York City
Brandstein, Raymond Marion	New York City	N.Y.U.	
B.S., N.Y.U., 1934		Sverdlin, Frank	Brooklyn, N. Y.
Buchsbaum, Sidney Leonard	New York City	B.S., Brooklyn, 1934	
A.B., C.C.N.Y., 1935		Teitel, Alan Lewis	New York City
Diner, Nathaniel	New York City	B.S., Alfred, 1933	
A.B., N.Y.U., 1935		Thompson, Herbert William	Tuckahoe, N. Y.
Helbraun, Henry William	Brooklyn, N. Y.	A.B., Columbia, 1935	
B.S., Brooklyn, 1934		Turkoff, Milton Harold	Ansonia, Conn.
Jacobs, Aaron Henry	Ansonia, Conn.	A.B., Yale, 1933	
A.B., Yale, 1934		Weinberg, Irving	Brooklyn, N. Y.
Kalman, Michael	Brooklyn, N. Y.	A.B., Vanderbilt, 1932	
A.B., N.Y.U., 1935		Winett, Sidney Richard	New York City
Kaplan, Charles	Brooklyn, N. Y.	B.S., N.Y.U., 1934	
B.S., Brooklyn, 1934		Wohlfarth, William Carl, Jr.	Bronxville, N. Y.
Kirschner, Samuel	New York City	Ph.B., Brown, 1934	
A.B., N.Y.U., 1934			
Klein, Joseph Aaron	Astoria, N. Y.		
C.C.N.Y.			
Levy, Harold	Brooklyn, N. Y.		
B.S., Brooklyn, 1934			
Linn, Bernard Frost	Newark, N. J.		
A.B., Upsala, 1933			
McCloskey, Cornelius Joseph	Brooklyn, N. Y.		
B.S., Fordham, 1934			
Mackta, Leo	Brooklyn, N. Y.		
B.S., Brooklyn, 1933			
Malloy, Edward Aloysius	New York City		
B.S., Fordham, 1934			
Miller, Sidney Leroy	Brooklyn, N. Y.		
B.S., C.C.N.Y., 1934			
Neger, Milton	Newark, N. J.		
A.B., N.Y.U., 1935			
Ornstein, Joseph Goodman	Brooklyn, N. Y.		
A.B., Columbia, 1933			
Perrone, Victor Ernest	Long Island City, N. Y.		
A.B., N.Y.U., 1934			
Premisler, Harry	Brooklyn, N. Y.		
A.B., Vanderbilt, 1932			
Quient, Isadore	Rockville Centre, N. Y.		
B.S., Arkansas, 1933			
Reiser, Irving Abraham	Brooklyn, N. Y.		
A.B., N.Y.U., 1935			
Richman, Philip	Brooklyn, N. Y.		
B.S., C.C.N.Y., 1934			
Robinson, Rufus Lewis, Jr.	Rye, N. Y.		
A.B., Columbia, 1934			
Rosenwasser, Milton	Yonkers, N. Y.		
A.B., Columbia, 1934			
Scola, Francis Peter	Mount Vernon, N. Y.		
B.S., Fordham, 1933			
Seelig, Alexander	New York City		
B.S., C.C.N.Y., 1934			
Senft, Sheldon Herbert	New York City		
B.S., C.C.N.Y., 1934			
Shapiro, Kermit	Brooklyn, N. Y.		
A.B., N.Y.U., 1935			
Minnesota Dental School			

THIRD YEAR—CLASS OF 1939

Axelrod, Isadore	New York City
B.S., C.C.N.Y., 1935	
Blinn, Simeon	New York City
A.B., N.Y.U., 1936	
Bonime, Irving	New York City
B.S., C.C.N.Y., 1935	
Cunningham, James Grownney	Jersey City, N. J.
B.S., St. Peter's (N. J.), 1935	
Cuttita, Joseph Anthony	New York City
A.B., Fordham, 1932	
Bellevue Hospital Medical School	
M.S., Fordham, 1936	
Dattner, Harold Lawrence	New York City
B.S., C.C.N.Y., 1935	
Dickinson, George Ernest, Jr.	Brewster, N. Y.
B.S., Hobart, 1934	
Columbia Medical School	
Dunn, Carl	Brooklyn, N. Y.
B.S., N.Y.U., 1934	
Eisenberg, Solomon S.	Brooklyn, N. Y.
Litt, B., Rutgers, 1921	
J.D., N.Y.U., 1923	
Ellison, Henry	New York City
B.S., C.C.N.Y., 1936	
Feitelson, Norman	New York City
B.S., N.Y.U., 1935	
Finkel, Lester	New York City
A.B., N.Y.U., 1936	
Friedman, Arthur S.	New York City
N.Y.U.	
Friedman, Joel	Brooklyn, N. Y.
A.B., N.Y.U., 1936	
Garretson, Gilbert Kuhn	Newark, N. J.
A.B., Princeton, 1935	
Granetz, Abram Bernard	New York City
B.S., Rutgers, 1933	
Greenberg, Israel Nathaniel	New York City
B.S., C.C.N.Y., 1934	
Hamberg, Harvey Udel	Long Island City, N. Y.
B.S., C.C.N.Y., 1935	

Hyman, Louis B.S., N.Y.U., 1933	Brooklyn, N. Y.	Carson, Richard Gregory B.S., Fordham, 1936	Peekskill, N. Y.
Kameros, Arthur A.B., Long Island, 1935	Jackson Heights, N. Y.	Chayes, Charles MacKenzie A.B., N.Y.U., 1937	New Rochelle, N. Y.
Kaplan, William N.Y.U.	New York City	Chilvers, William Thomas A.B., Columbia, 1935	New York City
Katz, Theodore A.B., N.Y.U., 1934	New York City	Clune, James Gerald, Jr. A.B., Pennsylvania, 1936	Ossining, N. Y.
Kerber, Hans G. A. Brooklyn	Brooklyn, N. Y.	Cohen, Leonard Rosebank, Staten Island, N. Y. B.S., Wagner, 1937	
Kogan, Elias A.B., N.Y.U., 1935	Brooklyn, N. Y.	Courtade, Gerard Louis A.B., Columbia, 1937	New York City
Kunin, Louis Leonard A.B., Columbia, 1933	Hightstown, N. J.	Del Rey, Silvio Anthony B.S., N.Y.U., 1935	Brooklyn, N. Y.
Lefkowitz, Norman A.B., N.Y.U., 1935	New York City	Ehrenhaus, Jesse B.S., C.C.N.Y., 1936	Brooklyn, N. Y.
Loveman, Charles Edward A.B., Johns Hopkins, 1935	New York City	Entelis, Lester A.B., N.Y.U., 1937	New York City
McCrosen, Edward Harold Roger Far Rockaway, N. Y.	Far Rockaway, N. Y.	Esposito, John Anthony B.S., Fordham, 1936	New York City
B.S., Fordham, 1935		Feinstein, Irving B.S., Columbia, 1934	New York City
McGannon, Robert Ferdinand A.B., Columbia, 1935	New York City	Feldman, Herbert Goodall B.S., N.Y.U., 1936	New York City
Cornell Medical School		Fliegel, Saul Lawrence A.B., N.Y.U., 1936	New York City
Marcus, Victor A.B., N.Y.U., 1936	New York City	Geraghty, Thomas Patrick A.B., N.Y.U., 1937	Jackson Heights, N. Y.
Mason, Robert Irving A.B., Columbia, 1936	Yonkers, N. Y.	Grauer, William Stone A.B., Johns Hopkins, 1936	Great Neck, N. Y.
Mullen, George Edward B.S., Fordham, 1934	Forest Hills, N. Y.	Harrison, Arnold Wilson A.B., Transylvania, 1935	Long Island City, N. Y.
George Washington Medical School		Kafka, Arthur Daniel B.S., Columbia, 1935	Brooklyn, N. Y.
Noonan, John Ford B.S., Fordham, 1935	New York City	Kanya, John A.B., Columbia, 1936	Brooklyn, N. Y.
Peiser, Murray B.S., C.C.N.Y., 1934	New York City	Kirschenbaum, Abraham Mandell A.B., North Carolina, 1936	Far Rockaway, N. Y.
Quain, Harry A.B., Columbia, 1933	New York City	Kupperman, Chester Sidney B.S., C.C.N.Y., 1936	New York City
Roth, Seymour Adolph A.B., Cornell, 1934	Woodhaven, N. Y.	Leavitt, Joseph Marcus B.S., Oklahoma, 1936	Brooklyn, N. Y.
Rothstein, Milton A.B., N.Y.U., 1935	Brooklyn, N. Y.	Lynch, Howard Paul A.B., Fordham, 1936	Woodhaven, N. Y.
Sachs, Myron Hillard N.Y.U.	New York City	Mandel, Isador Coleman A.B., N.Y.U., 1935	Long Island City, N. Y.
Samuels, Isidore Martin B.S., C.C.N.Y., 1937	New York City	Marchand, Gerard William A.B., Columbia, 1936	New York City
Saroff, Lester B.S., Long Island, 1935	New York City	Martinek, Rudolph Frank A.B., N.Y.U., 1935	Auburndale, N. Y.
Scheck, Samuel B.S., Brooklyn, 1934	Jamaica, N. Y.	Myers, Jesse A.B., Cornell, 1935	Peekskill, N. Y.
Scheier, Morton Howard A.B., N.Y.U., 1936	New York City	Nordstrom, Nils A.B., N.Y.U., 1937	Brooklyn, N. Y.
Scher, Martin L. B.S., Louisiana State, 1935	Brooklyn, N. Y.	O'Connell, Raymond Alfred William and Mary	Flushing, N. Y.
Schoeneman, Bertram Berthold A.B., Alabama, 1935	New York City	Rabbin, Murvin A.B., George Washington, 1936	Brooklyn, N. Y.
Schwartz, Leo Richard B.S., N.Y.U., 1935	New York City	Rabinow, Sidney B.S., Brooklyn, 1933	Brooklyn, N. Y.
Siegel, Irwin B.S., N.Y.U., 1935	New York City	Reiss, Robert B.S., C.C.N.Y., 1936	New York City
Singer, Leon Eugene A.B., N.Y.U., 1934	Brooklyn, N. Y.	Reznick, Irwin A.B., N.Y.U., 1934	Brooklyn, N. Y.
Skolnick, Louis A.B., N.Y.U., 1936	New York City	Rosenbloom, Sidney N.Y.U.	New York City
Wartel, Matthew A.B., N.Y.U., 1936	New York City	Schulze, Raymond Frederick B.S., N.Y.U., 1936	New York City
Wechsler, Milton B.S., C.C.N.Y., 1934	New York City		
Wilson, Jack B.S., N.Y.U., 1933	New York City		

SECOND YEAR—CLASS OF 1940

Alexander, Mortimer Aaron A.B., N.Y.U., 1937	Brooklyn, N. Y.
Bucklelew, Albert Rhoades A.B., Columbia, 1937	South Orange, N. J.

Sexauer, Paul Christian	New York City	Gulli, Salvatore Philip	Brooklyn, N. Y.
Ohio State		St. John's (N. Y.)	
Ohio College of Dental Surgery		Halpern, Jacob	New York City
Cincinnati		B.S., C.C.N.Y., 1937	
N.Y.U.		Jacobson, John	New York City
Long Island		B.S., N.Y.U., 1932	
Smith, Donald William	New York City	Ph.G., Fordham, 1936	
A.B., Brown, 1935		¹ Jagodzinski, Walter James	Brooklyn, N. Y.
Smith, Martin Irving	Flushing, N. Y.	Columbia College	
A.B., Columbia, 1937		Jenkins, Palmer Holderby	Yonkers, N. Y.
Spatz, Irving	Brooklyn, N. Y.	A.B., Colgate, 1935	
B.S., Brooklyn, 1935		Kalil, Fred Philip	Brooklyn, N. Y.
Speiser, Maximilian	New York City	A.B., Brooklyn, 1936	
A.B., N.Y.U., 1934		Kamen, Paul	Brooklyn, N. Y.
Stang, Irwin Frederick	Jackson Heights, N. Y.	A.B., N.Y.U., 1937	
A.B., Brooklyn, 1936		Kelly, Robert Louis	Brooklyn, N. Y.
Strickler, William Osler	Brooklyn, N. Y.	B.S., Fordham, 1937	
B.S., Columbia, 1937		Kittay, Irving	Brooklyn, N. Y.
Sweeny, Thomas Francis	Jackson Heights, N. Y.	C.C.N.Y.	
B.S., Columbia, 1937		Klatskin, Bertram	Brooklyn, N. Y.
Weimann, Fred William	Brooklyn, N. Y.	A.B., Cornell, 1937	
B.S., Columbia, 1937		Klatsky, Jack Seymour	Brooklyn, N. Y.
Weinberger, Harold	New York City	C.C.N.Y.	
B.S., N.Y.U., 1934		Knishkowsky, Emanuel Saul	Norwalk, Conn.
Weinrib, Morton Coleman	New York City	A.B., Yale, 1937	
A.B., N.Y.U., 1937		Koenig, Leonard Eli	New York City
Weiss, Alvin	New York City	A.B., Indiana, 1937	
N.Y.U.		Lansing, Harold Jason	Newark, N. J.
Mt. Union		B.S., N.Y.U., 1933	
Wetrogan, Joseph	Brooklyn, N. Y.	M.S., Pennsylvania, 1935	
Köln Medical School (Germany)		Leff, Alexander	New York City
B.S., N.Y.U., 1934		C.C.N.Y.	
A.M., Columbia, 1935		Levan, Raymond	New York City
		C.C.N.Y.	
		¹ Levene, Benjamin Fenton	New York City
		Columbia College	
		Lipschitz, Harry	Glen Cove, N. Y.
		A.B., N.Y.U., 1936	
		Lipschitz, Morton	New York City
		N.Y.U.	
		Loewenstein, Maurice Edward	New York City
		B.S., N.Y.U., 1937	
		¹ Martin, George Henry, Jr.	New York City
		Bard College	
		Melnick, Sidney	New York City
		A.B., Iowa, 1936	
		Messing, Mortimer	Brooklyn, N. Y.
		Long Island	
		Morris, Melvin Lewis	New York City
		B.S., C.C.N.Y., 1934	
		A.M., Columbia, 1937	
		Mund, Alvin	New York City
		B.S., C.C.N.Y., 1936	
		Naidorf, Irving Joseph	Brooklyn, N. Y.
		A.B., N.Y.U., 1937	
		Needham, John Joseph	Brooklyn, N. Y.
		A.B., Fordham, 1937	
		Pritz, John Ernest	Brooklyn, N. Y.
		B.S., Long Island, 1937	
		Rafferty, William Gregory	Albany, N. Y.
		A.B., Union, 1932	
		Rafkin, Irving David	Brooklyn, N. Y.
		Brooklyn	
		Nebraska	
		Riley, Ross Joseph	Kearny, N. J.
		A.B., N.Y.U., 1937	
		Schrager, Arthur	New York City
		Columbia University Extension	
		Silverstein, Philip	Brooklyn, N. Y.
		N.Y.U.	
		¹ Spengeman, Walter Gerhard	Pelham Manor, N. Y.
		Columbia College	

¹ Undergraduate students in Columbia University exercising professional option in the School of Dental and Oral Surgery.

Thomas, Arthur Seymour, Jr. Brooklyn, N. Y.
A.B., Columbia, 1937
Waldman, Morton Alexander New York City
C.C.N.Y.
Weinberg, Irving George Sea Cliff, N. Y.
B.S., N.Y.U., 1937
Weisenfeld, Albert Harold New York City
B.S., Columbia, 1934
A.M., Columbia, 1937
Wolf, Raymond David Brooklyn, N. Y.
A.B., N.Y.U., 1936

POSTGRADUATE STUDENTS

CANDIDATES FOR THE CERTIFICATE OF
PROFICIENCY

Oral Surgery

Davila-Díaz, Ernesto San Juan, P. R.
D.D.S., Maryland, 1934
Griffin, Joe Rogers Clarksburg, W. Va.
D.D.S., Pittsburgh, 1925
Rothenberg, Fred New York City
Würzburg
Frankfurt
Göttingen
D.D.S., Pennsylvania, 1937

Orthodontics

Dolce, John Joseph New York City
B.S., Fordham, 1933
D.D.S., Columbia, 1937
Gould, Joseph Ralph Cleveland, Ohio
D.D.S., Western Reserve, 1933
Grace, Raymond D. East Orange, N. J.
D.D.S., Maryland, 1929
Lee, Stephen Girard, Jr. East Orange, N. J.
A.B., Wesleyan, 1928
D.D.S., McGill, 1933
Lepine, Louis Prudent Quebec, Canada
D.D.S., Montreal, 1937
Marder, Joseph Theodore New York City
D.D.S., College of Dental and Oral Surgery
of N. Y., 1919
Mayers, John Jacob New York City
D.D.S., Columbia, 1932
Mossmann, Walter H. North Bergen, N. J.
D.D.S., Northwestern, 1934
Prezzano, Wilbur John Mount Vernon, N. Y.
B.S., Catholic, 1933
D.D.S., Columbia, 1937
Rodnick, Herman New York City
D.D.S., College of Dental and Oral Surgery
of N. Y., 1917

Sage, John Flushing, N. Y.
D.M.D., Tufts, 1928
Schanbam, Bernard Harrison New York City
D.D.S., Northwestern, 1936
Smith, Eldridge Paul Rockville Centre, N. Y.
D.D.S., College of Dental and Oral Surgery
of N. Y., 1918
Spiller, Henry Buffalo, N. Y.
D.D.S., Buffalo, 1935
Stavin, Maurice Volk New York City
B.S., N.Y.U., 1933
D.D.S., Columbia, 1936
Wagner, Leo A. New York City
D.D.S., Columbia, 1927
Waugh, Donald Byers Pelham Manor, N. Y.
D.D.S., Columbia, 1937

SPECIAL STUDENTS

Clinical Practice

Alexander, Maximilian Miller Washington, D. C.
A.B., George Washington, 1922
D.D.S., Georgetown, 1933
Allan, Theodore DeWitt Gloucester, Mass.
Lieut. Commander (D. C.) U. S. N.
D.M.D., Tufts, 1918
Manning, Eugene Edward Fort Slocum, N. Y.
Captain (D. C.) U. S. A.
D.D.S., Creighton, 1924
Ortega, Guillermo Guayaquil, Ecuador
D.D.S., Guayaquil, 1929
Persons, Pauline Fuller (Mrs.) Hudson, Mass.
D.M.D., Tufts, 1930
Rice, George Henry Ashland, Va.
Lieut. Commander (D. C.) U. S. N.
D.D.S., Medical College of Virginia, 1919
Shlickerman, H. Viola (Mrs.) Buffalo, N. Y.
D.D.S., Buffalo, 1914
Turbini, Lauro Joseph Cambridge, Mass.
Lieut. (J. G.) (D. C.) U. S. N.
D.M.D., Tufts, 1927
Walt, Leon Merrick Middletown, N. Y.
D.D.S., Buffalo, 1926

SUMMARY

Fourth year—Class of 1938	46
Third year—Class of 1939	51
Second year—Class of 1940	49
First year—Class of 1941	55
Candidates for the certificate of proficiency	20
Special postgraduate students	9
Total	230

CONDENSED ACADEMIC CALENDAR

For other dates refer to the complete Academic Calendar, which may be obtained from the Secretary of the University.

1938

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

- The privilege of registration after the period specified may be granted on payment of a late registration fee.
- September 19 Monday, to September 21, Wednesday. For undergraduate dental students.
- October 3 Monday, and October 4, Tuesday. For candidates for the certificate of proficiency.
-
- September 22 Thursday. Classes begin for undergraduates.
- October 5 Wednesday. Classes begin for candidates for the certificate of proficiency.
- October 12 Wednesday. Columbus Day. Not a University holiday.
- November 8 Tuesday. Election day. Holiday.
- November 24 Thursday. Thanksgiving. Holiday.
- December 5 Monday. Second Trimester begins, second year.
- December 8 Thursday. Second Trimester begins, third and fourth years.
- December 21 Wednesday to

1939

- January 3 Tuesday, inclusive. Christmas holidays.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SPRING SESSION

- January 17 Tuesday, to January 23, Monday. For undergraduate dental students.
- April 3 Monday, and April 4, Tuesday. For candidates for the certificate of proficiency.
-
- February 13 Monday, Alumni Day. Not a University holiday.
- February 22 Wednesday. Washington's Birthday. Holiday.
- March 1 Wednesday. Third Trimester begins, second year.
- March 9 Thursday. Third Trimester begins, third and fourth years.
- April 5 Wednesday. Classes begin for candidates for the certificate of proficiency.
- April 6 Thursday, to April 8, Saturday, inclusive. Easter holidays.
- April 15 Saturday. Last day for filing application or renewal of application for the degree of D.D.S. or for the certificate to be conferred in

June. The privilege of later application may be granted on payment of a late fee.

May	20	Saturday. Classes end, fourth year.
May	22	Monday. Final examinations begin, fourth year.
May	27	Saturday. Classes end, first, second, and third years.
May	29	Monday. Final examinations begin, first, second, and third years.
May	30	Tuesday. Memorial Day. Not a University holiday.

COMMENCEMENT, JUNE 4 TO JUNE 6

June	4	Sunday. Baccalaureate Service.
June	6	Tuesday. Conferring of degrees.

Columbia University

BULLETIN OF INFORMATION

Thirty-ninth Series, No. 27

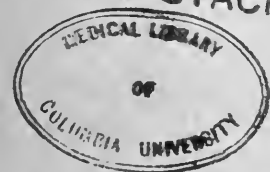
June 17, 1939

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1939-1940

COPY 2 STACKS



SERIAL



Gift

630 WEST 168TH STREET
NEW YORK

Columbia University Bulletin of Information

Thirty-ninth Series. No. 27

June 17, 1939

Issued at Columbia University, Morningside Heights, New York, N. Y., weekly from mid-December for thirty-eight consecutive issues. Entered as second-class matter December 22, 1936, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized. These include:

1. Reports of the President and Treasurer to the Trustees.
2. The Catalogue Number, Directory Number, and the Announcements of the several Colleges, Schools, and Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent without charge upon application to the Secretary of the University.

C.U.P. 7,700—1939.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to The School of Dental and Oral Surgery, 630 West 168th Street; telephone Wadsworth 3-2500.

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1939-1940



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS OF THE FACULTY

NICHOLAS MURRAY BUTLER, LL.D. (Cantab.), D.Litt. (Oxon.), Hon.D., (Paris)
President of the University
WILLARD COLE RAPPLEYE, A.M., M.D. *Dean*
HOUGHTON HOLLIDAY, A.B., D.D.S. . . . *Associate Dean and Secretary of the Faculty*

FACULTY

ADOLPH BERGER	MILO HELLMAN
CHARLES F. BODECKER	HOUGHTON HOLLIDAY
LESTER R. CAHN	ANNA V. HUGHES
HANS T. CLARKE	JAMES W. JOBLING
WILLIAM H. CRAWFORD	MAXWELL KARSHAN
SAMUEL R. DETWILER	HAROLD J. LEONARD
MOSES DIAMOND	CHARLES C. LIEB
HENRY S. DUNNING	EWING C. McBEATH
WILLIAM B. DUNNING	WILLARD C. RAPPLEYE
FREDERICK P. GAY	LEUMAN M. WAUGH
HENRY W. GILLET	HORATIO B. WILLIAMS
MAGNUS I. GREGERSEN	DANIEL E. ZISKIN
LEROY L. HARTMAN	

OFFICERS OF INSTRUCTION

EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922. [Oral Histology]

HENRY ULYSSES BARBER, JR. *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1916. [Orthodontics]

HENRY ARTHUR BARTELS *Assistant Professor of Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927. [Oral Pathology]
Assistant Bacteriologist, Division of Laboratories and Research, State
Department of Health; Attending Dental Surgeon, Bryson Day Nursery.

ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon,
Presbyterian Hospital.

SAMUEL BIRENBACH *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Surgery]
Visiting Oral Surgeon, Morrisania Hospital; Associate Oral Surgeon,
Beth Israel Hospital; Attending Oral Surgeon, St. John's Hospital.

CHARLES FRANCIS BODECKER *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Oral Histology]

RICHARD M. BRICKNER *Assistant Professor of Clinical Neurology*
B.S., Columbia, 1921; M.D., 1923.

- MAURICE BUCHBINDER *Associate Professor of Dentistry*
B.S., College of the City of New York, 1917; D.D.S., Columbia, 1925. [Operative]
- LESTER RICHARD CAHN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Pathology]
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE SAMUEL CALLAWAY *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1923. [Orthodontics]
Attending Orthodontist, Fifth Avenue Hospital, Polyclinic Hospital.
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1913.
Consultant in Biological Chemistry, Presbyterian Hospital.
- KENNETH STEWART COLE *Associate Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Assistant Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- WILLIAM HOPKINS CRAWFORD *Professor of Dentistry*
D.D.S., Minnesota, 1923. [Prosthetics]
Attending Dental Surgeon, Presbyterian Hospital.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S., 1931.
Consultant in Anatomy, Presbyterian Hospital.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914. [Oral Anatomy]
Consultant in Dentistry, Hawthorne Institute.
- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; [Oral Surgery]
B.S., New York University, 1915.
Attending Oral Surgeon, Presbyterian, Sloane, and Babies Hospitals, and Vanderbilt Clinic;
Consulting Oral Surgeon, Knickerbocker, Nassau, New York Foundling, Roosevelt, St. Vincent's,
St. Luke's, Mary Immaculate, Jamaica, Norwalk, State Reconstruction, West Haverstraw, Green-
wich, Stamford, United Port Chester, North Hudson, Meadowbrook, and Hackensack General
Hospitals, Hospital for Ruptured and Crippled, and National Hospital for Speech Disorders.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895. [Periodontology]
Director of the Department of Dentistry, New York Orthopaedic
Dispensary and Hospital.
- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Associate Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- FREDERICK PARKER GAY *Professor of Bacteriology*
A.B., Harvard, 1897; M.D., Johns Hopkins, 1901; Sc.D., George Washington, 1932.
Bacteriologist, Presbyterian Hospital.
- HENRY WEBSTER GILLET *Professor of Dentistry*
D.M.D., Harvard, 1885. [Prosthetics]
- MAGNUS INGSTRUP GREGERSEN *Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- LEROY LEO HARTMAN *Professor of Dentistry*
D.D.S., Northwestern, 1913; Sc.D., 1936. [Operative]
Attending Dental Surgeon, Presbyterian Hospital.
- MILO HELLMAN *Professor of Dentistry*
D.D.S., Pennsylvania, 1905; Sc.D., 1933. [Orthodontic Research]

- ISADOR HIRSCHFELD Associate Professor of Dentistry
D.D.S., New York College of Dentistry, 1902. [Periodontology]
Chief, Periodontia Department, Beth Israel Hospital; Attending Dental
Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint
Diseases.
- HOUGHTON HOLLIDAY Professor of Dentistry
A.B., Minnesota, 1915; D.D.S., 1917. [Radiology]
Attending Dental Surgeon, Presbyterian Hospital.
- EARLE BANKS HOYT Associate Professor of Dentistry
D.D.S., Pennsylvania, 1918. [Prosthetics]
- ANNA VERONICA HUGHES Professor of Dentistry
D.M.D., Tufts, 1909. [Courses for Dental Hygienists]
Director of Courses for Dental Hygienists.
- JAMES WESLEY JOBLING Professor of Pathology
M.D., Tennessee Medical, 1897.
Director and Attending Pathologist, Presbyterian Hospital; Consulting Pathologist, Sloane
Hospital.
- MAXWELL KARSHAN Associate Professor of Biochemistry
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- HOMER D. KESTEN Assistant Professor of Pathology
B.S., Wisconsin, 1920; M.S., 1921; M.D., Columbia, 1924.
Assistant Attending Pathologist, Presbyterian Hospital.
- BARRY GRIFFITH KING Assistant Professor of Physiology
A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.
- HAROLD JUDSON LEONARD Professor of Dentistry
D.D.S., Minnesota, 1912; A.B., 1915. [Periodontology]
Attending Dental Surgeon, Presbyterian Hospital.
- NOLAN DON CARPENTIER LEWIS Professor of Psychiatry
M.D., Maryland, 1914.
Director, Psychiatric Institute and Hospital; Director and Attending Psychiatrist, Vanderbilt
Clinic; Consultant in Psychiatry, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB Hosack Professor of Pharmacology
A.B., Columbia, 1902; M.D., 1906.
Consultant in Pharmacology, Presbyterian and Mount Sinai Hospitals.
- GEORGE FRANK LINDIG Assistant Professor of Dentistry
D.D.S., Minnesota, 1924. [Operative]
- JOSEPHINE EMILY LUHAN Assistant Professor of Dentistry
D.D.S., New York College of Dental and [Courses for Dental Hygienists]
Oral Surgery, 1912.
- EWING CLEVELAND McBEATH Professor of Dentistry
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921. [Dentistry for Children]
- FRANCIS STEPHEN McCAFFREY Associate Professor of Dentistry
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon,
Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Consulting Oral Surgeon,
Manhattan State Hospital, and St. Joseph's Hospital, Yonkers, N. Y.
- DONALD JOHN W. McLAUGHLIN Assistant Professor of Dentistry
D.D.S., Minnesota, 1926. [Prosthetics]
- LOIS COFFEY MOSSMAN Associate Professor of Education
B.S., Columbia, 1911; A.M., 1920; Ph.D., 1924. (Teachers College)
- EDWARD GERALD MURPHY Assistant Professor of Dentistry
D.D.S., Michigan, 1924. [Orthodontics]

- CARL REUBEN OMAN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1914. [Operative]
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914. [Oral Surgery]
Attending Oral Surgeon, City Hospital; Assistant Attending Oral Surgeon,
Babies Hospital and Vanderbilt Clinic; Consultant in Oral Surgery, Swedish, Vassar, and Grasslands
Hospitals; Consulting Oral Surgeon, Yonkers General Hospital and Lawrence Hospital, Bronxville.
- FRANK HENRY PIKE *Associate Professor of Physiology*
A.B., Indiana, 1903; Ph.D., Chicago, 1907.
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
D.D.S., Marion Sims Dental College, 1903. [Prosthetics]
Assisting Attending Dental Surgeon, Presbyterian Hospital.
- WILLARD COLE RAPPLEYE *Dean and Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922.
Dean, College of Physicians and Surgeons; Director, New York Post-Graduate Medical School.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Associate Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1929; [Dentistry for Children]
D.D.S., Columbia, 1930.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
D.D.S., 1922.
Oral Surgeon, O.P.D., Mount Sinai Hospital; Attending Oral Surgeon, Jewish Memorial Hospi-
tal; Associate Attending Dental Surgeon, Presbyterian Hospital.
- ERNEST LYMAN SCOTT *Associate Professor of Physiology*
B.S., Ohio Wesleyan, 1902; M.S., Chicago, 1911; Ph.D., Columbia, 1914.
- ²AURA EDWARD SEVERINGHAUS *Associate Professor of Anatomy*
B.S., Columbia, 1916; A.M., 1919; Ph.D., 1929.
- HANS SMETANA *Assistant Professor of Pathology*
M.D., Vienna, 1922.
Assistant Attending Pathologist, Presbyterian Hospital.
- GILBERT PERCIVAL SMITH *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
Associate Consultant in Anatomy, Presbyterian Hospital.
- LEWIS RIDDELL STOWE *Associate Professor of Dentistry*
D.D.S., Minnesota, 1916. [Dentistry for Children]
Associate Attending Dental Surgeon, Presbyterian Hospital;
Attending Dental Surgeon, Babies Hospital; Consultant in Dental and Oral Surgery, Neurological
Institute.
- ARTHUR CRANSTON TOTTEN *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1926. [Orthodontics]
- LEUMAN MAURICE WAUGH *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Orthodontics]
Consultant in Orthodontics, New York Infirmary for Women and Children.

² On leave Winter Session.

- HORATIO BURT WILLIAMS *Dalton Professor of Physiology*
 A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
 Consultant in Physiology, Presbyterian Hospital; Consulting Physician, Greenwich Hospital;
 Consultant, Neurological Institute.
- HARRY ALLEN YOUNG *Assistant Professor of Dentistry*
 D.D.S., Indiana, 1919. *[Prosthetics]*
- DANIEL E. ZISKIN *Associate Professor of Dentistry*
 D.D.S., Minnesota, 1917. *[Diagnosis]*
 Associate Attending Dental Surgeon, Presbyterian Hospital.
-
- ROBERT H. ALEXANDER, B.S., D.D.S. *Assistant in Dentistry*
 Clinical Assistant in Oral Surgery, New York Polyclinic Hospital. *[Oral Pathology]*
- HOWARD T. APPLEGATE, D.D.S. *Assistant in Dentistry*
 Assisting Attending Dental Surgeon, Presbyterian Hospital. *[Hospital Dentistry]*
- HERBERT DELBERT AYERS, JR., A.B., D.D.S. *Assistant in Dentistry*
 Assistant Visiting Oral Surgeon, Queens General Hospital. *[Oral Anatomy]*
- WILLIAM WELLS BAADE, D.D.S. *Assistant in Dentistry*
 Assisting Attending Dental Surgeon, Presbyterian Hospital. *[Hospital Dentistry]*
- WALTER REGINALD BEAVEN, D.D.S. *Instructor in Pharmacology*
- EDWARD BECKER, D.M.D. *Assistant in Dentistry*
[Oral Surgery]
- FRANK E. BEUBE, L.D.S., D.D.S. *Instructor in Dentistry*
 Assisting Attending Dental Surgeon, Presbyterian Hospital. *[Periodontology]*
- RICHARD J. BING, B.S., M.D. *Instructor in Physiology*
- NORMAN WINGATE BOYD, B.S., D.D.S. *Assistant in Dentistry*
[Prosthetics]
- KENNETH FULTON CHASE, D.M.D. *Instructor in Dentistry*
 Consulting Dental Surgeon, New York Eye and Ear Infirmary;
 Clinical Assistant, Roosevelt Hospital. *[Oral Surgery]*
- J. FRANCES COBBAN, R.N. *Special Lecturer in Dentistry*
[Courses for Dental Hygienists]
- ROBERT CYRIL DEVINE, B.S., D.D.S. *Instructor in Dentistry*
 Resident Dentist, New York State Psychiatric Institute and Hospital. *[Oral Surgery]*
- FREDERICK SCHULKEN DOSCHER, B.S., D.D.S. *Assistant in Dentistry*
[Oral Surgery]
- JACOB ERDREICH, D.M.D. *Assistant in Dentistry*
 Clinical Assistant, New York Post-Graduate Hospital. *[Oral Anatomy]*
- GEORGE BOYD FINCH, B.S., D.D.S. *Assistant in Dentistry*
[Operative]
- GENEVIEVE FOLEY, A.M. *Assistant in Bacteriology*
- MARIO FRANZONE, D.D.S. *Assistant in Dentistry*
[Oral Surgery]
- HERBERT PHILIP FRITZ, B.S., D.D.S. *Assistant in Dentistry*
[Operative]

- HARRY ALLEN GALTON, D.D.S. *Instructor in Dentistry*
[Orthodontics]
- BENJAMIN WILLIAM GLICK, A.M., M.D. *Instructor in Anatomy*
Adjunct Surgeon, City Hospital; Clinical Assistant in Surgery, Mount Sinai Hospital.
- ISIDORE HARRY GOLDBERGER, M.D. *Special Lecturer in Dentistry*
[Courses for Dental Hygienists]
Assistant Clinical Professor of Pediatrics, New York University and Bellevue Hospital Medical College; Assistant Director of Health Education, Board of Education, New York City; Attending Pediatricist, Willard Parker Hospital; Associate Attending Pediatricist, Home for Hebrew Infants; Consulting Pediatricist, Morrisania General Hospital.
- MASON M. GUEST, A.B. *Instructor in Physiology*
- IRVING R. HARDY, D.M.D. *Special Lecturer in Dentistry*
[Prosthetics]
- MAURICE JOHN HICKEY, D.M.D., M.D. *Assistant in Dentistry*
Junior Resident in Surgery, Presbyterian Hospital. [Oral Surgery]
- EDWARD HODNETT, Ph.D. *Lecturer in English*
[Columbia College]
- BRUCE MACLEAN HOGG, A.M., M.D. *Instructor in Surgery*
- KATHERINE FLORENCE HOLLIS *Instructor in Dentistry*
[Courses for Dental Hygienists]
- MELVILLE HUMBERT, A.B., B.S., D.D.S. *Instructor in Pharmacology*
- IRVIN LELAND HUNT, JR., D.D.S. *Instructor in Dentistry*
[Operative]
- LEWIS EDWARD JACKSON, D.D.S. *Instructor in Dentistry*
[Orthodontics]
- SAUL W. JARCHO, A.M., M.D. *Associate in Pathology*
- WILLIAM ROBERT JOULE, D.D.S. *Instructor in Dentistry*
[Orthodontics]
- HENRY JUNEMANN, A.B., D.D.S. *Instructor in Dentistry*
[Prosthetics]
- EDWARD HENRY KOCH, JR., A.B., D.D.S. *Assistant in Dentistry*
[Operative]
- WILLIAM LEFKOWITZ, D.D.S. *Instructor in Dentistry*
[Oral Histology]
- JULIUS K. LITTMAN, M.D. *Instructor in Anatomy*
Assistant Adjunct in Surgery, Bronx Hospital.
- L. VOSBURGH LYONS, M.D. *Associate in Neurology*
Attending Neurologist, Neurological Institute, City Hospital, and Vanderbilt Clinic; Consulting Neurologist, Englewood Hospital and State School for Boys, Warwick, N. Y.
- MORELL DION MCKENZIE, D.D.S. *Instructor in Dentistry*
[Prosthetics]
- JOSEPH L. MCSWEENEY, D.D.S. *Assistant in Dentistry*
Visiting Dental Surgeon, St. Vincent's Hospital. [Oral Surgery]
- EMANUEL A. MANGINELLI, M.D. *Instructor in Neurology*
- DOROTHY WEBSTER MARTIN, Ph.D. *Research Assistant in Pharmacology*

HENRY MILCH, A.B., M.D.	<i>Instructor in Anatomy</i> Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct Surgeon, Riverside Hospital.
MILTON ROBERT MILLER, B.S., D.D.S.	<i>Instructor in Dentistry</i> Attending Dental Surgeon, Unity Hospital. [Operative]
RUTH A. MILLER, Ph.D.	<i>Instructor in Anatomy</i>
WILLIAM MILLER, B.S., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
HARRY NEIVERT, M.D.	<i>Instructor in Otolaryngology</i>
FERDINAND G. NEUROHR, D.D.S.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
ROBERT W. NORTHROP, D.D.S.	<i>Instructor in Dentistry</i> [Oral Surgery]
NATHANIEL A. OLINGER, B.S., D.D.S., D.Sc.	<i>Assistant in Dentistry</i> [Prosthetics]
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S.	<i>Special Lecturer in Dentistry</i> [Orthodontics]
ENID TRIBE OPPENHEIMER, B.S.	<i>Instructor in Physiology</i>
ELIZABETH E. PAINTER, Ph.D.	<i>Instructor in Physiology</i>
VICTOR ERNEST PERRONE, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]
HENRY JOSEPH POWELL, B.S., D.D.S.	<i>Instructor in Dentistry</i> [Diagnosis]
FRED LEWIS RIGHTS, M.S.	<i>Assistant in Bacteriology</i>
BENJAMIN SALZER, M.D.	<i>Instructor in Neurology</i>
LOUIS SCHORR, D.D.S.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
WIRT S. SCOTT, JR., A.B., M.D.	<i>Instructor in Pharmacology</i>
ALBIN ROBERT SEIDEL, D.M.D.	<i>Instructor in Dentistry</i> Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital. [Oral Surgery]
HARRY H. SHAPIRO, D.M.D.	<i>Instructor in Anatomy</i> Attending Dentist, Cornwall Hospital.
ELIAS L. STERN, B.S., M.D.	<i>Instructor in Anatomy</i> Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.
FERDINAND A. STEWART, JR., A.B., D.D.S.	<i>Instructor in Dentistry</i> [Oral Surgery]
BARBARA B. STIMSON, A.B., M.D., Med. Sc.D.	<i>Associate in Surgery</i>
HARRY STRUSSER, D.D.S.	<i>Special Lecturer in Dentistry</i> Chief of Dental Division, Department of Health, New York City.
WILLIAM ANTHONY VERLIN, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]

GENEVA HASTINGS WALLS	<i>Instructor in Dentistry</i> [<i>Courses for Dental Hygienists</i>]
GLENN H. WHITSON, D.D.S.	<i>Assistant in Dentistry</i> [<i>Orthodontics</i>]
HAROLD C. WIGGERS, Ph.D.	<i>Instructor in Physiology</i>
HAROLD S. WOODRUFF, D.D.S.	<i>Instructor in Dentistry</i> [<i>Prosthetics</i>]
EDWARD VICTOR ZEGARELLI, A.B., D.D.S.	<i>Instructor in Dentistry</i> [<i>Diagnosis</i>]

CLINICAL ASSISTANTS

RALPH BECKER, B.S., D.D.S.	ESSE ROSE, D.D.S.
HARRY DARROW, D.D.S.	FREDERICK ROTHENBERG, D.D.S.
SAMUEL R. DRELICH, D.D.S.	WILLIAM JOSEPH SAVOY, B.S., D.D.S.
MAURICE KAVELLE, B.S., D.D.S.	BERNARD HARRISON SCHANBAM, D.D.S.
BENNETT M. LATHROP, B.S., D.D.S.	HERBERT F. SILVERS, B.S., D.D.S.
JESSE L. LEFCOURT, B.S., D.D.S.	BRAINERD FOSTER SWAIN, D.D.S.
MYRON MARTIN, A.B., D.D.S.	BENJAMIN TENNENBAUM, B.S., D.D.S.
THEODORE R. PARKER, D.D.S.	LESTER A. WOLFSON, D.D.S.
GUSTAVE REICH, D.D.S.	DAVID ZEISLER, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

ALBIN R. SEIDEL, D.M.D., *Director**Attending Dental Surgeons*

ADOLPH BERGER, D.D.S.	HOUGHTON HOLLIDAY, A.B., D.D.S.
WILLIAM H. CRAWFORD, D.D.S.	HAROLD J. LEONARD, B.S., D.D.S.
LEROY L. HARTMAN, D.D.S., Sc.D.	FRANCIS S. McCAFFREY, B.S., D.D.S.
ISADOR HIRSCHFELD, D.D.S.	ALBIN R. SEIDEL, D.M.D.

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	LEWIS R. STOWE, D.D.S.
JOSEPH SCHROFF, B.S., M.D., D.D.S.	DANIEL E. ZISKIN, D.D.S.

Assisting Attending Dental Surgeons

HOWARD T. APPLEGATE, D.D.S.	FRANK E. BEUBE, L.D.S., D.D.S.
WILLIAM W. BAADÉ, D.D.S.	JOHN F. RALSTON, D.D.S.

Intern

BRUNO EDMOND AMYOT, D.D.S.

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S., *Attending Oral Surgeon*

COMMITTEES

Administration

Dean RAPPLEYE, *Chairman*, Professors BODECKER, CRAWFORD, H. S. DUNNING, HARTMAN, HOLLIDAY, LEONARD, and WAUGH

Curriculum

Professor HOLLIDAY, *Chairman*, Professors BERGER, CAHN, CRAWFORD, HARTMAN, HOYT, LEONARD, and LIEB

Library

Professor HOLLIDAY, *School of Dental and Oral Surgery Representative*

Extension and Graduate Courses

Professor WAUGH, *Chairman*, Professors BERGER, CRAWFORD, and McBEATH

Research

Professor BODECKER, *Chairman*, Professors CAHN, CRAWFORD, KARSHAN, McBEATH, and H. SHAPIRO

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Provost of the University</i>
PHILIP M. HAYDEN, A.M.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Director of University Admissions</i>
CHARLES C. WILLIAMSON, Ph.D., Litt.D.	<i>Director of Libraries</i>
ROGER HOWSON, A.M.	<i>Librarian</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Director of Buildings and Grounds</i>
REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
THOMAS A. MCGOEY, M.S.	<i>Director of University Residence Halls</i>

* On leave to December 31, 1939.

ROBERT BIERSTEDT, A.M.	<i>Head of Men's Residence Halls</i>
KATHARINE CAMPBELL REILEY, Ph.D.	<i>Head of Johnson Hall</i>
MRS. JULIANA S. HASKELL, Ph.D.	<i>Adviser to Women Graduate Students</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.M.	<i>Alumni Secretary</i>
THOMAS P. FLEMING, M.S.	<i>Medical Librarian</i>



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE SCHOOL
OF DENTAL AND ORAL SURGERY

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work; but in 1784 it was reopened as Columbia College. In 1912, the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center where it occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The College of Physicians and Surgeons, in which the fundamental science subjects are given, adjoins it, the halls of the two being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course in dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments with students of the College of Physicians and Surgeons.

STUDENTS

A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon

all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a nonmatriculated student with permission to attend such courses of instruction as he is qualified to take but not as a candidate for a degree, certificate, or diploma in regular course. Nonmatriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Nonmatriculated students may receive formal statement of the satisfactory completion of any course.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Diplomas are issued at Commencement, in October, and in February (in the case of the Master of Arts degree, at Commencement, in December, and in February, or, in the case of the degrees of Doctor of Philosophy, Doctor of Medical Science, Doctor of the Science of Law, and Doctor of Education, upon completion of the requirements; also in August for the degree of Doctor of Dental Surgery and the degree of Bachelor of Science in optometry).

An application for a degree or certificate, other than the degrees of Doctor of Philosophy, Doctor of Medical Science, Doctor of the Science of Law, and Doctor of Education, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school or faculty concerned may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 90,000 volumes and about 8,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. It has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,000 current journals, and nearby are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks.

A series of lectures on the history of medicine is arranged for by the Library Committee during the school year.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University dormitories at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry, and supplement the special collections available in the College of

Physicians and Surgeons, and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 168th Street, is also open to students in the School of Dental and Oral Surgery.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education who is assisted by a corps of able instructors.

Employment. The Appointments Office located in Alumni House is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in cooperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given each year to each student. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed. The University Medical Officer, DR. W. H. McCASTLINE, has supervision of all matters affecting the health of the student body.

RESIDENCE HALLS

The University maintains on the Campus at 116th Street or immediately adjacent thereto Residence Halls for men and women, information about which will be furnished on request by the Secretary of the University, 213 Low Memorial Library. The office of the Director of University Residence Halls is 125 Livingston Hall.

RESIDENCE BUREAU

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the University Residence Bureau in Alumni House.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main floor, reached by the Campus entrance, are the offices of the three Religious Counselors. On the upper floor are the offices of the Chaplain of the University and his staff. An auditorium seating 300 people is used by the Department of English and Comparative Literature for dramatic composition and production. The lower floor, entered from Broadway, is occupied by the office of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch in Room B-463 of the College of Physicians and Surgeons. In addition to medical and dental textbooks the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6:30 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services, with substantial savings to Columbia students.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$1.25 in cloth and \$.50 in paper. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION, AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application by December 1 in order to be passed upon by the Committee on Admissions at an early date. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is successful completion of three full years at an acceptable college of arts and sciences, which must include successful completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

English composition and literature, 6 semester hours.

Physics, 6 semester hours.

Biology, 6 semester hours.

Chemistry (including an approved course in organic chemistry), 12 semester hours.

Inasmuch as an understanding of the medical sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary, but so difficult to attain in later years.

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

In order that the best selections may be made from among the candidates who are eligible for admission, all such applicants will be requested to report at the Dean's office for a personal interview some time prior to the final action of the Committee on Admissions. Those who remain on the eligible list after a personal interview will be given an examination as to mechanical ability and manual dexterity. This test will be given at various times during the year. It will consist of exercises in mechanical and free-hand drawing, metal filing, and molding in plastic material, and will be conducted by the technic teachers in the School.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

Admission to Advanced Standing. Students will not be admitted to advanced standing upon examination, but only upon a satisfactory record from their school of previous residence. Provided they are eligible for the dental student qualifying certificate required by the New York State Department of Education and can submit evidence of the satisfactory completion of the entrance requirements of this school, candidates who have completed, without condition, one or two years of study in a dental school registered in the state of New York including courses equivalent to those given at this school are eligible to apply for admission to the second or third years, respectively. Students applying for admission to the third year must have passed the partial examination of the New York State Board of Dental Examiners.

Owing to the lack of uniformity in the arrangement of the first and second year curricula in the various dental schools a transfer usually can be accomplished with the least adjustment at the end of the second year.

Application blanks may be obtained from the Dean's office.

SUMMER SESSION

No regular courses will be offered during the Summer Session of 1939. Those who have successfully completed all the requirements of the third and fourth years may elect work in clinical practice, without credit, from June 12 to July 21, 1939, subject to the approval of the departments concerned. Students having deficiencies in technical or clinical courses must register for those courses by June 12, 1939. Fees will be charged on the basis of \$10 per trimester credit.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and

the attainment of at least eighteen years of age. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. During the year 1938-1939 short refresher courses were offered in oral surgery, orthodontics, and periodontia. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country, and the applicant must be a member in good standing of his national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized twelve-month course has been given since 1927 to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as qualification for admission. For information regarding the curricula leading to the degrees of Master of Arts or Doctor of Philosophy under these Faculties see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. (The course was given for the first time in 1938-1939.) The course is open to graduate dentists who have completed satisfactory courses in the fundamental sciences and who hold a Bachelor of Science or Bachelor of Arts degree. For information regarding course content, registration, and fees, please apply to the DeLamar Institute of Public Health, 630 West 168th Street, New York City.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$6.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed for dental students:

- (a) University Fee
 - 1. For each Winter or Spring Session or any part thereof \$10.00
 - 2. For each Summer Session or any part thereof 7.00
- (b) Tuition Fee
 - 1. For the course in dentistry for a Winter or Spring Session in the case of a student enrolled for the full course 250.00

For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

(c) Fee for Application	
1. For a degree	20.00
2. For a certificate	10.00
(d) Privileges	
1. Late registration or late application	6.00
2. Deficiency or special examinations	3.00
3. Renewal of application for any degree or certificate	1.00
(e) Publications	
1. For all students, Columbia <i>Dental Review</i>	1.00
2. For sophomores, juniors, and seniors, junior membership in the American Dental Association	2.00
(f) Case Rental	
1. For sophomores, rental of two instrument cases	10.00
For juniors and seniors, rental of one instrument case	5.00
(g) Rebates	
1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.	
2. After the second Saturday of the Winter or Spring Session, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.	
When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.	
(h) Deposit	20.00
Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic.	

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the following Winter Session, it will not be returned. If he registers at the School in the following September, the amount of the acceptance fee will be deducted from his tuition fees for the Winter Session.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100 depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp.

Instruments and supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the students' best interests.

Lockers. Each student will be assigned a locker on entering and will be required to supply himself with one combination lock as prescribed by the School. Locks are \$1.00 each.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

Following is an itemized estimate of the average expenses of a full-time student in the School of Dental and Oral Surgery for the academic year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year and can be accepted as applicable for the year 1939-1940 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$553	\$548
Room	200	170
Board	300	250
Books	60	30
Instruments (see below)	160	160
Laundry	40	28
	<hr/>	<hr/>
	\$1,313	\$1,186

The approximate cost of instruments for the four-year course is as follows: first year, \$135; second year, \$335; third year, \$140; fourth year, \$30. In addition, the microscope required at the beginning of the course will cost between \$60 and \$157. The cost of books will vary, depending upon the choice made from the selection offered. Instruments are payable at the opening of the school year.

EXAMINATIONS AND STANDING

Final examinations are held at the end of the course, and reexaminations for students with conditions are held within one month after the close of the regular academic year.

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, reexamination required; Inc, incomplete, completed work must be submitted within the time limit set by the instructor. One reexamination will be allowed in a course graded F; if the examination is passed the grade will be C.

No student will be recommended for the degree of Doctor of Dental Surgery until he has completed all the required practical work and passed satisfactory examinations in all the subjects of the entire course.

CONDITIONS FOR ADVANCEMENT

Advancement will be granted to such students as have received passing grades in all subjects. A student who has failed in any one of his courses is not allowed to go on with his class until he has removed that failure to the satisfaction of the head of the department. A student who has failed two courses in the first year may be allowed reëxamination in the failed courses provided that the failures do not comprise any two out of the three following courses: gross anatomy, physiology, and biological chemistry. A student who has failed in two courses of the second, third, or fourth years may be allowed reëxamination in the two failed courses provided the failed subjects do not include operative dentistry, prosthetic dentistry, or crown and bridge work, and that the total hours of the two courses failed do not exceed one third of the total course hours for that year.

Students who receive conditions or failures amounting to one-third or more of the year's work must repeat the work of the entire year if allowed to reregister. A student may repeat an entire year only once during his dental course and may not repeat any other year later, unless the Faculty of the School votes to suspend this rule on recommendation of the class Faculty under which the student has been working.

The class Faculties have general supervision of students' work and the application of these regulations to individual cases. The Faculty reserves the right to refuse readmission to any student who, upon recommendation of his class Faculty, is believed to be unsuited to the conditions of study and advancement in the School. The Faculty reserves the right to amend the schedule of studies from time to time at its discretion, without further notice.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character, and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 per cent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming such citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examinations or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize to be known as the Ella Maria Ewell Medal will be awarded annually to that student of the School of Dental and Oral Surgery who may, in the judgment of the Faculty, be most proficient in some subject of dentistry. The branch of

dentistry for which the award is made will be determined by the executors of the will of Glover C. Beckwith-Ewell.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

OMICRON KAPPA UPSILON

Epsilon Epsilon Chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and especially character of outstanding quality in members of the senior class. The leading 12 per cent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to sophomores, juniors, and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS

President, JAMES M. DUNNING, D.D.S.

Vice-President, LOUIS M. CITRON, D.D.S.

Secretary, JOHN J. MAYERS, D.D.S.

Treasurer, HERMAN SHECKMAN, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to the Board of Governors of Columbia Alumni Federation, DRS. JOSEPH R. HORN, MANUEL M. MASLANSKY, and R. M. BRISTOL.

Any graduate, former student, Faculty member, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

<i>Subject</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Sessions</i>	<i>Credits</i>	<i>Academic Hours</i>
FRESHMAN YEAR:				
Anatomy, embryology	2	. . .	2	20
Anatomy, gross	5	10	15	310
Anatomy, microscopic	4	4	8	160
Anatomy, oral	1	5	6	160
Biochemistry	4	4	8	160
Histology, oral . . . . .	. . .	2	2	60
Neurology	2	2	4	80
Physiology	7	4	11	190
Prosthetics	1	2	3	70
			<u>59</u>	<u>1,210</u>
SOPHOMORE YEAR:				
Bacteriology	4	3	7	130
Crown and bridge	1	3	4	100
Oral hygiene	2	. . .	2	20
Operative dentistry	2	8	10	260
Pathology	4	5	9	180
Pharmacology	4	2	6	100
Physical properties . . . . .	. . .	2	2	60
Prophylaxis . . . . .	. . .	1	1	30
Prosthetic dentistry	2	8	10	260
Psychopathology	1	. . .	1	10
Radiology	1	. . .	1	10
Surgery, oral	2	. . .	2	20
			<u>55</u>	<u>1,180</u>
JUNIOR YEAR:				
Anatomy, applied	1	. . .	1	10
Bacteriology	1	. . .	1	10
Crown and bridge				
Technic	1	5	6	160
Porcelain . . . . .	. . .	2	2	60
Round wire . . . . .	. . .	1	1	30
Diagnosis, dental	3	1	4	60
Operative dentistry	1	10	11	310
Oral hygiene and social relations	2	. . .	2	20
Orthodontics	2	3	4	110
Pathology, oral	3	2	5	90
Periodontology . . . . .	. . .	1	1	30
Pharmacology, applied	1	. . .	1	10
Prosthetic dentistry	2	5	7	170
Radiology . . . . .	. . .	1	1	30
Surgery, oral	1	1	2	40
Theory and practice	1	. . .	1	10
			<u>49</u>	<u>1,150</u>
SENIOR YEAR:				
Crown and bridge	1	7	8	220
Dentistry for children	1	3	4	100
Diagnosis, dental . . . . .	. . .	1	1	30
Operative dentistry	2	13	15	410
Periodontology	2	1	3	50
Practice of medicine	6	1	7	90
Prosthetic dentistry	1	6	7	190
Surgery, oral	7	1	3	100
Theory and practice	2	. . .	2	20
			<u>50</u>	<u>1,210</u>

COURSES OF INSTRUCTION

For purposes of instruction the work of each year is scheduled in three trimesters, which are designated as First, Second, and Third. The unit of credit used is the trimester credit, which signifies approximately three academic hours of work a week for one trimester. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work requiring no outside study it represents three hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 200 are open to candidates for the degree of Doctor of Dental Surgery in the first and second years. Courses numbered from 200 upward are open to candidates for the Doctor of Dental Surgery in the third and fourth years.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Each senior is required to present a thesis representing original reading, scientific research, or both. This shall be completed under the immediate supervision of Associate Dean HOLLIDAY and with the help of an adviser in the field selected.

Members of the fourth year class will also be required to take a comprehensive examination, which will be given near the end of the academic year, and the results will be considered as one of the indications of the fitness of the candidates for graduation.

ANATOMY

Anatomy 101—Oral anatomy. A total of one hundred and sixty hours. First year. 6 trimester credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the growth and development of the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Three hours a week for two trimesters. First year. 2 trimester credits. Professors BODECKER and APPLEBAUM and Dr. LEFKOWITZ.

Lectures and laboratory work on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Sixteen hours a week. First year. 8 trimester credits. Professors P. E. SMITH, COPENHAVER, ENGLE, SEVERINGHAUS, and assistants.

Lectures, conferences, and laboratory.

This course is the same as the Medical School course *Anatomy 101F*.

Anatomy 151—Gross anatomy. A total of three hundred and ten hours. First year. 15 trimester credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. A total of twenty hours of lecture. 2 trimester credits. First year. Professors DETWILER, COPENHAVER, and ROGERS.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 252—Applied anatomy of the head and neck. One hour lecture and demonstration a week for one trimester. Third year. 1 trimester credit. Professor ROGERS and Dr. SHAPIRO.

A review course, with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Nine hours a week First Trimester. Second year. 3 trimester credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of epidemiology, infection, immunity, serum diagnosis, and therapy. Four hours a week First Trimester. Second year. 4 trimester credits. Professor GAY and staff.

Lectures given to the dental and medical students together.

Bacteriology 253—Bacteriology and etiology of dental disease. One hour a week Third Trimester. 1 trimester credit. Third year. Professor ROSEBURY.

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biological chemistry. Two hours lecture and six hours laboratory a week for two trimesters. 8 trimester credits. Professor KARSHAN and assistants.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. One hour lecture a week for one trimester and approximately ninety hours of technic. Second year. 4 trimester credits. Professors HOYT and McLAUGHLIN, Drs. PERRONE and VERLIN.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. One hour lecture a week for one trimester and approximately one hundred and fifty hours of technic. Third year. 6 trimester credits. Professors HOYT and McLAUGHLIN, Drs. PERRONE and VERLIN.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on models and green teeth.

Crown and Bridge 207—Porcelain technic. Approximately sixty hours of technic. Third year. 2 trimester credits. Professor McLAUGHLIN and Dr. McKENZIE.

Uses of porcelain. Construction of porcelain jacket crown on technic model. Staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Approximately thirty hours of technic. Third year. 1 trimester credit. Professor GILLET and Dr. JUNEMANN.

Lectures and laboratory work in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. One hour lecture a week for one trimester. Fourth year. 1 trimester credit. Professor HOYT.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Approximately two hundred and ten hours of clinical practice. Fourth year. 7 trimester credits. Professors CRAWFORD, HOYT, G. P. SMITH, McLAUGHLIN, Drs. BOYD and WOODRUFF.

Construction of crown and bridgework for patients.

DENTISTRY FOR CHILDREN

Dentistry for Children 202—Dentistry for children lectures and clinic. One hour a week lecture for one trimester and three hours a week clinic for three trimesters. Fourth year. 4 trimester credits. Professors McBEATH, STOWE, and ROSENSTEIN.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry.

Clinical work includes history taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. One hour a week lecture for three trimesters and a total of thirty hours clinic. Third year. 4 trimester credits. Professors ZISKIN and LEONARD and clinical staff.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental X-ray diagnosis, oro-dental symptomatology, and occlusal dys-harmonies.

Diagnosis 213—Dental diagnosis clinic. A total of thirty hours. Fourth year. 1 trimester credit. Professors ZISKIN, STOWE, and ROSENSTEIN and the clinical staff.

Continuation of *Diagnosis 212* clinic.

HYGIENE AND PROPHYLAXIS

Hygiene 121—Hygiene and prophylaxis. Three hours a week for one trimester. Second year. 1 trimester credit. Professors HUGHES and LUHAN and assistants.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

NEUROLOGY

Neurology 150—Neuro-anatomy. Two hours lecture and six hours laboratory a week for one trimester. First year. 4 trimester credits. Professors ELWYN and BRICKNER, Drs. SALZER, LYONS, and MANGINELLI.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Neurology 101* in the Medical School.

OPERATIVE DENTISTRY

Operative Dentistry 131—Operative dentistry technic. A total of two hundred and forty hours in three trimesters. Second year. 8 trimester credits. Professor HARTMAN, Drs. HUNT and M. R. MILLER, and assistants.

Lectures and laboratory work on operative instruments and materials, their care and uses, and the technic of cavity preparations and fillings.

Operative Dentistry 132—Operative dentistry lectures. One hour a week for two trimesters. Second year. 2 trimester credits. Professor HARTMAN, Drs. HUNT and M. R. MILLER.

Lectures on laboratory procedure in operative dentistry.

Operative Dentistry 233—Operative dentistry lectures. One hour a week for one trimester. Third year. 1 trimester credit. Professors HARTMAN and OMAN.

Lectures and conferences on operative dentistry procedures.

Operative Dentistry 234—Operative dentistry technic and clinic. Approximately three hundred hours. Third year. 10 trimester credits. Professors HARTMAN, BUCHBINDER, OMAN, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

The technic of gold inlay, porcelain inlay, and root canal procedures, and clinical practice and demonstrations.

Operative Dentistry 235—Operative dentistry lectures. One hour a week for two trimesters. Fourth year. 2 trimester credits. Professors HARTMAN and BUCHBINDER.

Conference course on problems in operative dentistry and root canal therapy.

Operative Dentistry 236—Operative dentistry clinic. Approximately three hundred and ninety hours. Fourth year. 13 trimester credits. Professors HARTMAN, BUCHBINDER, OMAN, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

Clinical practice and demonstrations in operative dentistry.

ORAL HYGIENE AND SOCIAL RELATIONS

Oral Hygiene 122—Oral hygiene lectures. One hour a week for two trimesters. Second year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on the application of bacteriology, physiology, and biochemistry to preventive dentistry.

Social Relations 222—Social and economic relations of dentistry. One hour a week for two trimesters. Third year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on community dentistry and public health practice.

ORTHODONTICS

Orthodontics 241—Orthodontic technic. Sixty hours laboratory. Third year. 2 trimester credits. Professor BARBER and staff.

Laboratory instruction in free-hand soldering, the fundamental technic of making labial and lingual arches and space retainers.

Orthodontics 242—Orthodontic lectures and demonstrations. Two hours lecture a week for one trimester and a total of thirty hours of demonstrations in the clinic. Third year. 2 trimester credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, and Drs. JACKSON, GALTON, and JOULE.

Orthodontic fundamentals with special emphasis on preventive malocclusion by early recognition and correction of the predisposing factors.

PATHOLOGY

Pathology 150—General and special pathology. Two hours lecture and nine hours laboratory a week First Trimester and two hours lecture and five hours laboratory a week Second Trimester. Second year. 9 trimester credits. Professors JOBLING and SMETANA and assistants.

Lectures and laboratory.

This course covers the subject matter of *Pathology 101FS* in the Medical School but in abbreviated form.

Pathology 246—Oral pathology. One hour a week lecture for three trimesters. Six hours laboratory a week for one trimester. Third year. 5 trimester credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Ten hours of conference Third Trimester. Fourth year. No credit. Elective. Professor CAHN.

Conferences on the clinical application of oral pathology.

PERIODONTOLOGY

Periodontology 251—Periodontology clinic. Thirty hours. Third year. 1 trimester credit. Professors W. B. DUNNING, HIRSCHFELD, HOLLIDAY, LEONARD, and Dr. BEUBE.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. One hour a week for two trimesters. Fourth year. 2 trimester credits. Professors LEONARD and HIRSCHFELD.

Lectures and conferences on the theory and practice of periodontology and demonstrations of gingival symptoms.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Periodontology 253—Periodontology clinic. Thirty hours. Fourth year. 1 trimester credit. Professors W. B. DUNNING, HIRSCHFELD, HOLLIDAY, LEONARD, and Dr. BEUBE.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. One lecture, one conference, and one three-hour laboratory period for two trimesters. Second year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, HUMBERT, and SCOTT.

Lectures and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. One hour a week for one trimester. Third year. 1 trimester credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSICAL PROPERTIES OF DENTAL MATERIALS

Physical Properties 126—Physical properties of dental materials. Three hours a week for two trimesters. Second year. 2 trimester credits. Professor CRAWFORD.

Metallurgical processes and apparatus. Physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Two hours lecture, one hour conference, and six hours laboratory a week, Second and Third Trimesters. First year. 11 trimester credits. Professor GREGERSEN and assistants.

This course is equivalent to *Physiology 101* in the Medical School, with medical and dental students taking the lectures together.

PRACTICE OF MEDICINE

Practice of Medicine 278—General survey of medicine. Two hours a week of lectures and conferences for three trimesters, and thirty hours of clinic in three trimesters. Fourth year. 7 trimester credits. Professor McBEATH and associates.

Lectures and conferences covering phases of general medicine pertinent to dentistry. Clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

PROSTHETIC DENTISTRY

Prosthetics 155—Prosthetic lectures and technic. One hour lecture a week for one trimester, and approximately sixty hours of technic. First year. 3 trimester credits. Professors YOUNG and RALSTON, Drs. McKENZIE and JUNEMANN.

Lectures on the history and manipulation of materials used in prosthetic dentistry, and technical procedures in full denture construction.

Prosthetics 157—Prosthetic lectures and technic. One hour lecture a week for two trimesters, and approximately two hundred and forty hours of technic. Second year. 10 trimester credits. Professors YOUNG and RALSTON, Drs. McKENZIE and JUNEMANN.

Technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. One hour a week for two trimesters. Third year. 2 trimester credits. Professor CRAWFORD.

Examination, classification, application of anatomical considerations and clinical procedure in full denture construction.

Prosthetics 261—Prosthetic clinic. Approximately one hundred and fifty hours of clinical practice. Third year. 5 trimester credits. Professors CRAWFORD, YOUNG, RALSTON, Drs. McKENZIE and JUNEMANN.

Construction of full and partial dentures for patients.

Prosthetics 263—Prosthetic clinic. Approximately one hundred and eighty hours of clinical practice. Fourth year. 6 trimester credits. Professors CRAWFORD, GILLET, YOUNG, McLAUGHLIN, G. P. SMITH, RALSTON, and Dr. McKENZIE.

Construction of full and partial dentures for patients.

Prosthetics 264—Prosthetic lectures. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor CRAWFORD.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

PSYCHIATRY

Psychiatry 150T—Psychopathology. One hour a week Second Trimester. Second year. 1 trimester credit. Professor LEWIS.

Lectures in psychobiology; the instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances. Principles of mental hygiene and environmental adjustments.

RADIOLOGY

Radiology 165—Oral radiology conference. One hour a week for one trimester. Second year. 1 trimester credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Thirty hours. Third year. 1 trimester credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. One hour a week for two trimesters. Second year. 2 trimester credits. Professor PARKER.

Lectures and conferences on general surgical diseases and the principles of their treatment.

Surgery 270—Oral surgery. One hour a week lecture for one trimester. Third year. 1 trimester credit. Professors PARKER and McCAFFREY.

Lectures and conferences on local and general anesthesia and exodontia.

Surgery 271—Oral surgery clinic. A total of thirty hours. Third year. 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia.

Surgery 272—Oral surgery. Two hours a week for two trimesters. Fourth year. 2 trimester credits. Professors H. S. DUNNING and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Surgery 273—Oral surgery. A total of thirty hours. Fourth year. No credit. Professors H. S. DUNNING, BERGER, PARKER, and McCAFFREY.

Demonstration of oral and maxillo-facial lesions.

Surgery 274—Oral surgery clinic. A total of thirty hours. Fourth year. 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and assistants.

Further clinical practice and demonstration on local and general anesthesia, exodontia, oral surgical operations, and oral pathological lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics. One hour a week for one trimester. Third year. 1 trimester credit. Professor W. B. DUNNING.

Lecture and conference course with collateral reading on ethics and dental ethics.

Theory and Practice 282—Dental jurisprudence and history. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor GILLET.

Lecture and conference course with collateral reading.

Theory and Practice 283—Dental economics. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor G. P. SMITH.

Lecture and conference course in dental economics and office management.

TEXT BOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Cunningham, *Manual of Practical Anatomy*, \$11.55 a set. Choice of: Cunningham, *Textbook of Anatomy*, \$10.00; Gray, *Anatomy*, \$10.00; Piersol, *Human Anatomy*, \$10.00.

Microscopic anatomy. Bailey, *Textbook of Histology*, 9th ed., \$6.00.

Oral anatomy. Diamond, *Dental Anatomy*, 2d revised ed., \$4.50.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology*, Columbia edition, \$3.00; *Laboratory Manual and Drawing Notebook, Oral Histology and Embryology*, \$1.00.

BACTERIOLOGY. Gay, et al, *Agents of Disease and Host Resistance*, \$10.00. Reference books: Appleton, *Bacterial Infection*, \$7.00; Gordon, et al, *Dental Science and Dental Art*, \$9.00.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergcim, *Practical Physiological Chemistry*, \$8.50.

CROWN AND BRIDGE. Mimeographed notes furnished by the Department.

DENTAL JURISPRUDENCE. Required: Carpenter, *Jurisprudence*, \$2.25.

DIAGNOSIS. Mimeographed material furnished by the Department.

HYGIENE. Fones, *Mouth Hygiene*, \$5.00; or Fones, *Preventive Dentistry*, \$2.75.

NEUROLOGY. Choice of: Bailey, *Histology*, 6th or 7th ed.; Ranson, *Anatomy of the Nervous System*, \$6.50.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, 4 vols., \$16.00. Mimeographed notes are also furnished by the Department.

ORTHODONTICS. Recommended for collateral reading: McCoy, *Applied Orthodontia*, 4th ed., \$4.50; Strang, *Textbook of Orthodontia*, \$10.00.

PATHOLOGY. Boyd, *Textbook of Pathology*, \$10.00; MacCallum, *Textbook of Pathology*, \$10.00.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Cushny, *Pharmacology and Therapeutics*, \$6.50; Sollmann, *Manual of Pharmacology*, \$7.50.

PHYSICAL PROPERTIES OF DENTAL MATERIALS. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

PRACTICE OF MEDICINE. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.00.

PROSTHETIC DENTISTRY. Recommended but not required: Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50; Turner, *American Textbook of Prosthetic Dentistry*, \$10.00.

PSYCHIATRY. Henderson and Gillespie, *Textbook on Psychiatry*, \$6.00; Hinsie, *Syllabus of Psychiatry*, \$2.50; White *Introduction to the Study of the Mind*, \$2.00.

RADIOLOGY. Recommended but not required: Ennis, *Dental Roentgenology*, 2d. ed., \$6.00; Holliday, *Dental Radiology Handbook*, \$2.00.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; De Costa, *General Surgery*, \$10.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Blair and Ivy, *Essentials of Oral Surgery*, \$6.50; Flagg, *Art of Anesthesia*, \$5.00; Stout, *Human Cancer*, \$10.00.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50; Stedman, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

1938-1939

FOURTH YEAR—CLASS OF 1939

Axelrod, Isadore New York City
B.S., College of the City of New York, 1935
Blinn, Simeon New York City
A.B., New York University, 1936
Bonime, Irving New York City
B.S., College of the City of New York, 1935
Cunningham, James Gowney Jersey City, N. J.
B.S., St. Peter's (N. J.), 1935
Cuttitta, Joseph Anthony New York City
A.B., Fordham, 1932
Bellevue Hospital Medical School
M.S., Fordham, 1936
Dattner, Harold Lawrence Brooklyn, N. Y.
B.S., College of the City of New York, 1935
Dickinson, George Ernest, Jr. Brewster, N. Y.
B.S., Hobart, 1934
Columbia Medical School
Dunn, Carl Brooklyn, N. Y.
B.S., New York University, 1934
Eisenberg, Solomon S. Brooklyn, N. Y.
Litt, B., Rutgers, 1921
J.D., New York University, 1923
Ellison, Henry New York City
B.S., College of the City of New York, 1936
Feitelson, Norman New York City
B.S., New York University, 1935
Finkel, Lester New York City
A.B., New York University, 1936
Friedman, Arthur S. New York City
New York University
Friedman, Joel Brooklyn, N. Y.
A.B., New York University, 1936
Garretson, Gilbert Kuhn Newark, N. J.
A.B., Princeton, 1935
Granetz, Abram Bernard Raritan, N. J.
B.S., Rutgers, 1933
Greenberg, Israel Nathaniel New York City
B.S., College of the City of New York, 1934
Hamberg, Harvey Udel Long Island City, N. Y.
B.S., College of the City of New York, 1935
Hyman, Louis Brooklyn, N. Y.
B.S., New York University, 1933
Kameros, Arthur Jackson Heights, N. Y.
B.S., Long Island, 1935
Kaplan, William New York City
New York University
Katz, Theodore New York City
A.B., New York University, 1934
Kerber, Hans G. A. Brooklyn, N. Y.
Brooklyn
Kogan, Elias Brooklyn, N. Y.
A.B., New York University, 1935
Kunin, Louis Leonard Hightstown, N. J.
A.B., Columbia, 1933
Lefkowitz, Norman New York City
A.B., New York University, 1935
Loveman, Charles Edward New York City
A.B., Johns Hopkins, 1935
McCrosen, Edward Harold Roger Far Rockaway, N. Y.
B.S., Fordham, 1935
McGannon, Robert Ferdinand Westport, Conn.
A.B., Columbia, 1935
Cornell Medical School
Marcus, Victor New York City
A.B., New York University, 1936
Mason, Robert Irving Yonkers, N. Y.
A.B., Columbia, 1936
Mullen, George Edward Forest Hills, N. Y.
B.S., Fordham, 1934
George Washington Medical School

Noonan, John Ford West Haven, Conn.
B.S., Fordham, 1935
Peiser, Murray New York City
B.S., College of the City of New York, 1934
Quain, Harry New York City
A.B., Columbia, 1933
A.M., Columbia, 1935
Roth, Seymour Adolph Woodhaven, N. Y.
A.B., Cornell, 1934
Rothstein, Milton Brooklyn, N. Y.
A.B., New York University, 1935
Sachs, Myron Hillard New York City
New York University
Samuels, Isidore Martin New York City
B.S., College of the City of New York, 1937
Saroff, Lester New York City
B.S., Long Island, 1935
Scheck, Samuel Jamaica, N. Y.
B.S., Brooklyn, 1934
Scheier, Morton Howard New York City
A.B., New York University, 1936
Scher, Martin L. Brooklyn, N. Y.
B.S., Louisiana State, 1935
Schoeneman, Bertram Berthold New York City
A.B., Alabama, 1935
Schwartz, Leo Richard New York City
B.S., New York University, 1935
Siegel, Irwin New York City
B.S., New York University, 1935
Singer, Leon Eugene Brooklyn, N. Y.
A.B., New York University, 1934
Skolnick, Louis New York City
A.B., New York University, 1936
Wartel, Matthew New York City
A.B., New York University, 1936
Wechsler, Milton Neversink, N. Y.
B.S., College of the City of New York, 1934
Wilson, Jack New York City
B.S., New York University, 1933

THIRD YEAR—CLASS OF 1940

Alexander, Mortimer Aaron Brooklyn, N. Y.
A.B., New York University, 1937
Buckelew, Albert Rhoades South Orange, N. J.
A.B., Columbia, 1937
Carson, Richard Gregory Peekskill, N. Y.
B.S., Fordham, 1936
Clune, James Gerald, Jr. Ossining, N. Y.
A.B., Pennsylvania, 1936
Cohen, Leonard Staten Island, N. Y.
B.S., Wagner, 1937
Courtade, Gerard Louis New York City
A.B., Columbia, 1937
Del Rey, Silvio Anthony Brooklyn, N. Y.
B.S., New York University, 1935
Ehrenhaus, Jesse Brooklyn, N. Y.
B.S., College of the City of New York, 1936
Entelis, Lester New York City
A.B., New York University, 1937
Esposito, John Anthony New York City
B.S., Fordham, 1936
Feinstein, Irving New York City
B.S., Columbia, 1934
Feldman, Herbert Goodall New York City
B.S., New York University, 1936
Fliegel, Saul Lawrence New York City
A.B., New York University, 1936
Geraghty, Thomas Patrick Jackson Heights, N. Y.
A.B., New York University, 1937
Grauer, William Stone Great Neck, N. Y.
A.B., Johns Hopkins, 1936

Harrison, Arnold Wilson
Long Island City, N. Y.
A.B., Transylvania, 1935
Kafka, Arthur Daniel
Brooklyn, N. Y.
B.S., Columbia, 1935
Kanya, John
Brooklyn, N. Y.
A.B., Columbia, 1936
Kupperman, Chester Sidney
New York City
B.S., College of the City of New York, 1939
Leavitt, Joseph Marcus
Brooklyn, N. Y.
B.S., Oklahoma, 1936
Lynch, Howard Paul
Woodhaven, N. Y.
A.B., Fordham, 1936
Mandel, Isador Coleman
Long Island City, N. Y.
A.B., New York University, 1935
Marchand, Gerard William
New York City
A.B., Columbia, 1936
Martinek, Rudolph Frank
Auburndale, N. Y.
A.B., New York University, 1935
Myers, Jesse
Peekskill, N. Y.
A.B., Cornell, 1935
Nordstrom, Nils, Jr.
Brooklyn, N. Y.
A.B., New York University, 1937
O'Connell, Raymond Alfred
Flushing, N. Y.
William and Mary
Brooklyn, N. Y.
Rabinow, Sidney
Brooklyn, N. Y.
Rankow, Rubin Martin
Brooklyn, N. Y.
B.S., College of the City of New York, 1935
Reiss, Robert
New York City
B.S., College of the City of New York, 1936
Reznick, Irwin
Brooklyn, N. Y.
A.B., New York University, 1934
Rosenbloom, Sidney
New York City
New York University
Schulze, Raymond Frederick
New York City
B.S., New York University, 1936
Sexauer, Paul Christian
New York City
Ohio College of Dental Surgery
B.S., Long Island, 1938
Smith, Donald William
Walton, N. Y.
A.B., Brown, 1935
Smith, Martin Irving
Flushing, N. Y.
A.B., Columbia, 1937
Spatz, Irving
Brooklyn, N. Y.
B.S., Brooklyn, 1935
Stang, Irwin Frederick
Jackson Heights, N. Y.
A.B., Brooklyn, 1936
Strickler, William Osler
Brooklyn, N. Y.
B.S., Columbia, 1937
Sweeny, Thomas Francis
Jackson Heights, N. Y.
B.S., Columbia, 1937
Weimann, Fred William
Brooklyn, N. Y.
B.S., Columbia, 1937
Weinberger, Harold
New York City
B.S., New York University, 1934
Weinrib, Morton Coleman
New York City
A.B., New York University, 1937
Weiss, Alvin
New York City
B.S., Mt. Union, 1938
Wetrogan, Joseph
Brooklyn, N. Y.
Köln Medical School (Germany)
B.S., New York University, 1934
A.M., Columbia, 1935

SECOND YEAR—CLASS OF 1941

Axelroad, Saul
Atlanta, Ga.
B.S., College of the City of New York, 1934
Beder, Oscar Edward
Astoria, N. Y.
B.S., Rutgers, 1936
Columbia Medical School
Bergholz, Max Morton
Brooklyn, N. Y.
B.S., College of the City of New York, 1935
A.M., Columbia, 1936

Berl, Jesse
New York City
A.B., New York University, 1938
Berman, David Peter
Hoboken, N. J.
A.B., Maryland, 1937
Bromberg, Bertram Elias
New York City
Long Island
Burt, Wesley Reppert
Larchmont, N. Y.
A.B., Columbia, 1938
Capuozzo, Armand Rosario
Brooklyn, N. Y.
College of the City of New York
Chayes, Charles MacKenzie
New Rochelle, N. Y.
A.B., New York University, 1937
Collins, Edmund Martin
New York City
A.B., Columbia, 1937
Dimond, Norman
New York City
College of the City of New York
Dougherty, Lawrence Edward
New York City
Fordham
Erdreich, Ulysses
Brooklyn, N. Y.
B.S., Columbia, 1938
Feldman, Bernard Leonard
Jackson Heights, N. Y.
B.S., New York University, 1934
Delamar Inst. of Public Health
Finkelstein, Selig
Ossining, N. Y.
A.B., Cornell, 1937
Gulli, Salvatore Philip
Brooklyn, N. Y.
St. John's (N. Y.)
Jacobson, John
New York City
Ph. G., Fordham, 1926
B.S., New York University, 1932
Jagodzinski, Walter James
Brooklyn, N. Y.
A.B., Columbia, 1938
Jenkins, Palmer Holderby
Yonkers, N. Y.
A.B., Colgate, 1935
Kamen, Paul
Brooklyn, N. Y.
A.B., New York University, 1937
Kelly, Robert Louis
Brooklyn, N. Y.
B.S., Fordham, 1937
Kittay, Irving
Brooklyn, N. Y.
College of the City of New York
Klatskin, Bertram
Brooklyn, N. Y.
A.B., Cornell, 1937
Klatsky, Jack Seymour
Brooklyn, N. Y.
B.S., College of the City of New York, 1938
Knishkowsky, Emanuel Saul
South Norwalk, Conn.
A.B., Yale, 1937
Koenig, Leonard Eli
New York City
A.B., Indiana, 1937
Lansing, Harold Jason
Orange, N. J.
B.S., New York University, 1933
M.S., Pennsylvania, 1935
Leff, Alexander
New York City
College of the City of New York
Levaio, Raymond
New York City
B.S., College of the City of New York, 1938
Levene, Benjamin Fenton
New York City
A.B., Columbia, 1938
Lipschitz, Harry
Glen Cove, N. Y.
A.B., New York University, 1936
Lipschutz, Morton
New York City
A.B., New York University, 1938
Loewenstein, Maurice Edward
New York City
B.S., New York University, 1937
Martin, George Henry, Jr.
New York City
A.B., Columbia, 1938
Melnick, Sidney
Baltimore, Md.
A.B., Iowa, 1936
Messing, Mortimer
Brooklyn, N. Y.
Long Island
Morris, Melvin Lewis
New York City
B.S., College of the City of New York, 1934
A.M., Columbia, 1937
Mund, Alvin
New York City
B.S., College of the City of New York, 1936
Naidorf, Irving Joseph
Brooklyn, N. Y.
A.B., New York University, 1937

Needham, John Joseph	Brooklyn, N. Y.	Glatter, Sidney	New York City
A.B., Fordham, 1937		A.B., New York University, 1937	
Pritz, John Ernest	Brooklyn, N. Y.	Goldsmith, Milton	Brooklyn, N. Y.
B.S., Long Island, 1937		B.S., College of the City of New York, 1935	
Ratkin, Irving David	Brooklyn, N. Y.	Greenfield, Samuel	Far Rockaway, N. Y.
Brooklyn		B.S., Dalhousie, 1938	
Nebraska		Gromet, Victor Hillel	Brooklyn, N. Y.
Rassi, Fred Kalil	Brooklyn, N. Y.	Brooklyn	
A.B., Brooklyn, 1936		Hagstrom, Albin Rand	Brooklyn, N. Y.
Riley, Ross Joseph	Kearny, N. J.	B.S., Bates, 1938	
A.B., New York University, 1937		Helland, George	New York City
Schrager, Arthur	New York City	A.B., New York University, 1938	
Columbia University Extension		Jarrett, Vincent Raymond	Stamford, Conn.
Silverstein, Philip	Brooklyn, N. Y.	B.S., Tufts, 1938	
A.B., New York University, 1938		Klaif, Jerome Leonard	Brooklyn, N. Y.
Spengeman, Walter Gerhard	Pelham Manor, N. Y.	A.B., New York University, 1938	
		Luban, Joseph	New York City
A.B., Columbia, 1938		B.S., College of the City of New York, 1938	
Thomas, Arthur Seymour, Jr.	Brooklyn, N. Y.	Meany, John Joseph Ryan	North Bergen, N. J.
A.B., Columbia, 1937		A.B., Holy Cross, 1938	
Waldman, Morton Alexander	New York City	Mooney, Alvin	Jamaica, N. Y.
B.S., College of the City of New York, 1939		New York University	
Weinberg, Irving George	Sea Cliff, N. Y.	Mosesson, Doris	New York City
B.S., New York University, 1937		Michigan	
Weisenfeld, Albert Harold	Nanuet, N. Y.	New York University	
B.S., Columbia, 1934		Neuwirth, Martin Maxwell	Ozone Park, N. Y.
A.M., Columbia, 1937			
Wolf, Raymond David	Brooklyn, N. Y.	B.S., College of the City of New York, 1937	
A.B., New York University, 1936		Offen, Roger Lansing, Jr.	Stamford, Conn.

FIRST YEAR—CLASS OF 1942

Barnett, Harold Henry	New York City	Panoff, Mortimer	Brooklyn, N. Y.
New York University		B.S., Maryland, 1937	
Barrer, Harry George	Reading, Pa.	Pasternak, Richard	Brooklyn, N. Y.
B.S., Albright, 1938		A.B., Johns Hopkins, 1938	
Bellows, James William	Saranac Lake, N. Y.	Pearlman, Leonard Milton	Brooklyn, N. Y.
St. Lawrence		A.B., North Carolina, 1938	
Bermak, Marcus	New York City	Rosner, Norman Lawrence	New York City
B.S., College of the City of New York, 1938		A.B., New York University, 1938	
Berman, William	Brooklyn, N. Y.	Ross, Joshua Felix	New York City
New York University		B.S., College of the City of New York, 1937	
Blank, Harold Herbert	Brooklyn, N. Y.	Shoham, Joseph	New York City
New York University		B.S., College of the City of New York, 1935	
Blumenfeld, Martin	Brooklyn, N. Y.	Skarka, Anthony	Schenectady, N. Y.
A.B., Brooklyn, 1938		Union (N. Y.)	
Blumenson, Seymour	Mt. Vernon, N. Y.	Tanz, Norman Pershing	New York City
A.B., New York University, 1936		B.S., College of the City of New York, 1938	
A.M., Columbia, 1938		Tolvin, Ira	Brooklyn, N. Y.
Blumenthal, Joseph	New York City	A.B., New York University, 1937	
A.B., New York University, 1938		Topolsky, Jack Murray	Brooklyn, N. Y.
Cunti, Adeline Rheta	Brooklyn, N. Y.	A.B., Kansas, 1938	
A.B., Brooklyn, 1938		Weber, Robert Farer	New York City
Davert, Helen	New York City	A.B., Columbia, 1938	
A.B., Adelphi, 1929		Weinreb, Julius	New York City
De Giovanni, Anthony Assuntus	Brooklyn, N. Y.	B.S., College of the City of New York, 1938	
		Weinstein, Lawrence Abbott	Brooklyn, N. Y.
A.B., Holy Cross, 1938		A.B., West Virginia, 1938	
De Rose, Joseph John	Astoria, N. Y.	Winter, Sidney Joseph	New York City
B.S., Manhattan, 1938		B.S., Dalhousie, 1938	
Di Gregorio, Silvio Joseph	Brooklyn, N. Y.	Wolf, Joseph	Lowell, Mass.
B.S., St. John's (N. Y.), 1938		B.S., Boston, 1938	
Druker, Louis	New York City	Zackheim, Lester Irving	New York City
B.S., Albright, 1937		A.B., Columbia, 1938	
Eisenstein, David	Brooklyn, N. Y.		
B.S., New York University, 1938			
Farrell, Joseph Patrick	Brooklyn, N. Y.		
St. John's (N. Y.)			
Fisher Louis	Ogdensburg, N. Y.		
Cornell			
Gerzog, Bertram Emanuel	Brooklyn, N. Y.		
¹ Senior in Columbia			
Gibson, Joseph Arnet, Jr.	Forest Hills, N. Y.		
¹ Senior in Columbia			

UNCLASSIFIED STUDENTS

Breitner, Carl	New York City
State Gvmnasium (Vienna)	
M.D., Vienna, 1925	
Reichenstein, George Ludwig	Jackson Heights, N. Y.
Imperial Royal Maximilian Gymnasium	
(Vienna)	
M.D., Vienna, 1920	

¹ Undergraduate students in Columbia University exercising professional option in the School of Dental and Oral Surgery.

POSTGRADUATE STUDENTS
CANDIDATES FOR THE CERTIFICATE OF
PROFICIENCY

Oral Surgery

Martini, Joseph James Passaic, N. J.
D.D.S., Maryland, 1934

Orthodontics

Alexander, Robert H. White Plains, N. Y.
B.S., College of the City of New York, 1929
D.D.S., Columbia, 1933
Braun, Anna New York City
Warsaw Inst. of Dentistry
D.D.S., New York University, 1929
Colon, Louis Hilario New York City
D.D.S., Pennsylvania, 1929
Dolce, John Joseph New York City
B.S., Fordham, 1933
D.D.S., Columbia, 1937
Gato, Froilan Hidalgo Havana, Cuba
D.D.S., Atlanta-Southern, 1938
Gillespie, Raymond William New Haven, Conn.
D.D.S., Maryland, 1934
Charles Saul Jonas Atlantic City, N. J.
D.D.S., Maryland, 1938
Katz, Solomon Leonard New York City
D.D.S., Columbia, 1936
Kushel, Harley Garson Rochester, N. Y.
D.D.S., Dalhousie, 1934
Lee, Stephen Girard, Jr. East Orange, N. J.
A.B., Wesleyan, 1928
D.D.S., McGill, 1933
Leslie, Harold Edward Ontario, Canada
D.D.S., Toronto, 1935
Marder, Joseph Theodore New York City
D.D.S., College of Dental and Oral Surgery
of New York, 1919
Marran, Vincent Peel Holyoke, Mass.
D.M.D., Harvard, 1938
Mayers, John Jacob New York City
D.D.S., Columbia, 1932
Meyer, Samuel Brooklyn, N. Y.
D.D.S., Pennsylvania, 1935
Mindel, Leo Elias New Brunswick, N. J.
D.M.D., Harvard, 1933
Mosmann, Walter H. North Bergen, N. J.
D.D.S., Northwestern, 1934

Prezzano, Wilbur John Mt. Vernon, N. Y.
B.S., Catholic, 1933
D.D.S., Columbia, 1937
Ruble, James William Hillsboro, Ohio
D.D.S., Ohio State, 1937
Sage, John Flushing, N. Y.
D.M.D., Tufts, 1928
Stavin, Maurice Volk New York City
B.S., New York University, 1933
D.D.S., Columbia, 1936
Tekulsky, Irwin Nelson New York City
D.D.S., New York University, 1932
Waugh, Donald Byers Pelham Manor, N. Y.
D.D.S., Columbia, 1937
Whitman, Clifford LeRoys West Englewood, N. J.
D.D.S., Maryland, 1927

SPECIAL STUDENTS

Clinical Practice

Amarglio, Emile Leon Roger Alexandria, Egypt
Faculté Française de Médecine (Syria)
Colson, Palmer Karl Albany, N. Y.
D.D.S., Pennsylvania, 1938
Garcia, Francisco Gregorio Rio Piedras, P. R.
D.D.S., Maryland, 1921
Grunewald, Alvin Herbert Mayville, Wis.
Lieut. (j.g.) (D.C.) U.S.N.
B.S., Marquette, 1930
D.D.S., Marquette, 1931
Kazimorow, Antonina Merkuri Shanghai, China
Petrograd Dental College
Meyers, Harry Joseph Danville, Pa.
D.D.S., Pittsburgh, 1926
Watts, Leon Merrick Middletown, N. Y.
D.D.S., Buffalo, 1926

SUMMARY

Fourth Year—Class of 1939	51
Third Year—Class of 1940	45
Second Year—Class of 1941	52
First Year—Class of 1942	50
Unclassified students	2
Candidates for the Certificate of Proficiency ..	25
Special postgraduate students	7
Total	232

CONDENSED ACADEMIC CALENDAR

For other dates refer to the complete Academic Calendar, which may be obtained from the Secretary of the University.

1939

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee.

- September 18 Monday, to September 20, Wednesday. For undergraduate dental students.
- October 2 Monday, and October 3, Tuesday. For candidates for the certificate of proficiency.
-

- September 21 Thursday. Classes begin for undergraduates.
- October 4 Wednesday. Classes begin for candidates for the certificate of proficiency.
- October 12 Thursday. Columbus Day. Not a University holiday.
- November 7 Tuesday. Election day. Holiday.
- November 30 Thursday. Thanksgiving. Holiday.
- December 4 Monday. Second Trimester begins, second year.
- December 7 Thursday. Second Trimester begins, third and fourth years.
- December 20 Wednesday to

1940

- January 2 Tuesday, inclusive. Christmas holidays.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SPRING SESSION

- January 16 Tuesday, to January 22, Monday. For undergraduate dental students.
- April 1 Monday, and April 2, Tuesday. For candidates for the certificate of proficiency.
-

- February 12 Monday. Alumni Day. Not a University holiday.
- February 22 Thursday. Washington's Birthday. Holiday.
- February 28 Wednesday. Third Trimester begins, second year.
- March 7 Thursday. Third Trimester begins, third and fourth years.
- March 21 Thursday, to March 23, Saturday, inclusive, Easter holidays.
- April 3 Wednesday. Classes begin for candidates for the certificate of proficiency.
- April 15 Monday. Last day for filing application or renewal of application for the degree of D.D.S. or for the certificate to be conferred in June. The privilege of later application may be granted on payment of a late fee.

May	18	Saturday. Classes end, fourth year.
May	20	Monday. Final examinations begin, fourth year.
May	25	Saturday. Classes end, first, second, and third years.
May	27	Monday. Final examinations begin, first, second, and third years.
May	30	Thursday. Memorial Day. Not a University holiday.

COMMENCEMENT, JUNE 2 TO JUNE 4

June	2	Sunday. Baccalaureate Service.
June	4	Tuesday. Conferring of degrees.



1939								1940								1940							
JULY								JANUARY								JULY							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
..	....	....	....	....	....	1	....	1	2	3	4	5	6	....	....	1	2	3	4	5	6	....	....
2	3	4	5	6	7	8	....	7	8	9	10	11	12	13	....	7	8	9	10	11	12	13	....
9	10	11	12	13	14	15	....	14	15	16	17	18	19	20	....	14	15	16	17	18	19	20	....
16	17	18	19	20	21	22	....	21	22	23	24	25	26	27	....	21	22	23	24	25	26	27	....
23	24	25	26	27	28	29	....	28	29	30	31	....	....	....	....	28	29	30	31	....	....	....	....
30	31	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
AUGUST								FEBRUARY								AUGUST							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
....	....	1	2	3	4	5	....	....	....	....	....	1	2	3	....	....	....	....	....	1	2	3	....
6	7	8	9	10	11	12	....	4	5	6	7	8	9	10	....	4	5	6	7	8	9	10	....
13	14	15	16	17	18	19	....	11	12	13	14	15	16	17	....	11	12	13	14	15	16	17	....
20	21	22	23	24	25	26	....	18	19	20	21	22	23	24	....	18	19	20	21	22	23	24	....
27	28	29	30	31	....	....	....	25	26	27	28	29	....	....	....	25	26	27	28	29	30	31	....
SEPTEMBER								MARCH								SEPTEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
....	....	....	....	....	1	2	....	....	....	....	....	....	1	2	....	1	2	3	4	5	6	7	....
3	4	5	6	7	8	9	....	3	4	5	6	7	8	9	....	8	9	10	11	12	13	14	....
10	11	12	13	14	15	16	....	10	11	12	13	14	15	16	....	15	16	17	18	19	20	21	....
17	18	19	20	21	22	23	....	17	18	19	20	21	22	23	....	22	23	24	25	26	27	28	....
24	25	26	27	28	29	30	....	24	25	26	27	28	29	30	....	29	30	....	....	....	....	....	....
31	....	....	....	....	....	....	....	31	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
OCTOBER								APRIL								OCTOBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
1	2	3	4	5	6	7	....	....	1	2	3	4	5	6	....	....	....	1	2	3	4	5	....
8	9	10	11	12	13	14	....	7	8	9	10	11	12	13	....	6	7	8	9	10	11	12	....
15	16	17	18	19	20	21	....	14	15	16	17	18	19	20	....	13	14	15	16	17	18	19	....
22	23	24	25	26	27	28	....	21	22	23	24	25	26	27	....	20	21	22	23	24	25	26	....
29	30	31	....	....	....	....	....	28	29	30	....	....	....	....	....	27	28	29	30	31	....	....	....
NOVEMBER								MAY								NOVEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
....	....	....	1	2	3	4	....	....	....	....	1	2	3	4	....	....	....	....	....	....	1	2	....
5	6	7	8	9	10	11	....	5	6	7	8	9	10	11	....	3	4	5	6	7	8	9	....
12	13	14	15	16	17	18	....	12	13	14	15	16	17	18	....	10	11	12	13	14	15	16	....
19	20	21	22	23	24	25	....	19	20	21	22	23	24	25	....	17	18	19	20	21	22	23	....
26	27	28	29	30	....	....	....	26	27	28	29	30	31	....	....	24	25	26	27	28	29	30	....
DECEMBER								JUNE								DECEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
....	....	....	....	....	1	2	....	....	....	....	....	....	....	1	....	1	2	3	4	5	6	7	....
3	4	5	6	7	8	9	....	2	3	4	5	6	7	8	....	8	9	10	11	12	13	14	....
10	11	12	13	14	15	16	9	10	11	12	13	14	15	15	16	17	18	19	20	21
17	18	19	20	21	22	23	16	17	18	19	20	21	22	22	23	24	25	26	27	28
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31	30

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Columbia University

BULLETIN OF INFORMATION

Fortieth Series, No. 27

June 15, 1940

AL LIBRA

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1940-1941



630 WEST 168TH STREET
NEW YORK

Columbia University Bulletin of Information

Fortieth Series, No. 27

June 15, 1940

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1. Reports of the President and Treasurer to the Trustees.
2. The Catalogue Number, Directory Number, and the Announcements of the several Colleges, Schools, and Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C.U.P. 8,000—1940.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to The School of Dental and Oral Surgery, 630 West 168th Street; telephone Wadsworth 3-2500.

Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1940-1941



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS OF THE FACULTY

NICHOLAS MURRAY BUTLER, LL.D. (Cantab.), D.Litt. (Oxon.), Hon.D., (Paris)
President of the University
WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. *Dean*
HOUGHTON HOLLIDAY, A.B., D.D.S. . . *Associate Dean and Secretary of the Faculty*

FACULTY

ADOLPH BERGER
CHARLES F. BODECKER
LESTER R. CAHN
HANS T. CLARKE
SAMUEL R. DETWILER
MOSES DIAMOND
HENRY S. DUNNING
WILLIAM B. DUNNING
HENRY W. GILLETT
MAGNUS I. GREGERSEN
LEROY L. HARTMAN

HOUGHTON HOLLIDAY
EARLE BANKS HOYT
ANNA V. HUGHES
JAMES W. JOBLING
MAXWELL KARSHAN
HAROLD J. LEONARD
CHARLES C. LIEB
EWING C. McBEATH
WILLARD C. RAPPLEYE
LEUMAN M. WAUGH
DANIEL E. ZISKIN

OFFICERS OF INSTRUCTION

EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922. [Oral Histology]
HENRY ULYSSES BARBER, JR. *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1916. [Orthodontics]
HENRY ARTHUR BARTELS *Assistant Professor of Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927. [Oral Pathology]
Assistant Bacteriologist, Division of Laboratories and Research, State
Department of Health; Attending Dental Surgeon, Bryson Day Nursery.
ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon,
Presbyterian Hospital.
SAMUEL BIRENBACH *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Surgery]
Visiting Oral Surgeon, Morrisania Hospital; Associate Oral Surgeon,
Beth Israel Hospital; Attending Oral Surgeon, St. John's Hospital.
CHARLES FRANCIS BODECKER *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Oral Histology]
RICHARD M. BRICKNER *Assistant Professor of Clinical Neurology*
B.S., Columbia, 1921; M.D., 1923.
MAURICE BUCHBINDER *Associate Professor of Dentistry*
B.S., College of the City of New York, 1917; D.D.S., Columbia, 1925. [Operative]

- LESTER RICHARD CAHN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Pathology]
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE SAMUEL CALLAWAY *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1923. [Orthodontics]
Attending Orthodontist, Fifth Avenue Hospital, Polyclinic Hospital.
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1913.
Consultant in Biological Chemistry, Presbyterian Hospital.
- KENNETH STEWART COLE *Associate Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- ²SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S., 1931.
Consultant in Anatomy, Presbyterian Hospital.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914. [Oral Anatomy]
Consultant in Dentistry, Hawthorne Institute.
- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; [Oral Surgery]
B.S., New York University, 1915.
Attending Oral Surgeon, Presbyterian, Sloane, and Babies Hospitals, and Vanderbilt Clinic;
Consulting Oral Surgeon, Knickerbocker, Nassau, New York Foundling, Roosevelt, St. Vincent's,
St. Luke's, Mary Immaculate, Jamaica, Norwalk, State Reconstruction, West Haverstraw, Green-
wich, Stamford, United Port Chester, North Hudson, Meadowbrook, and Hackensack General
Hospitals, Hospital for Ruptured and Crippled, National Hospital for Speech Disorders, and Vassar
Brothers Hospital, Poughkeepsie.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895. [Periodontology]
Director of the Department of Dentistry, New York Orthopaedic
Dispensary and Hospital.
- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- HENRY WEBSTER GILLETT *Professor of Dentistry*
D.M.D., Harvard, 1885. [Prosthetics]
- MAGNUS INGSTRUP GREGERSEN *Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- LEROY LEO HARTMAN *Professor of Dentistry*
D.D.S., Northwestern, 1913; Sc.D., 1936. [Operative]
Attending Dental Surgeon, Presbyterian Hospital.
- MILO HELLMAN *Professor of Dentistry*
[Orthodontic Research]
D.D.S., Pennsylvania, 1905; Sc.D., 1933; Sc.D., Witwatersrand, 1938.
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902. [Periodontology]
Chief, Periodontia Department, Beth Israel Hospital; Attending Dental
Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint
Diseases.
- HOUGHTON HOLLIDAY *Associate Dean and Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917. [Radiology]
Attending Dental Surgeon, Presbyterian Hospital.

² On leave Winter Session.

- EARLE BANKS HOYT *Professor of Dentistry*
D.D.S., Pennsylvania, 1918. [Prosthetics]
- ANNA VERONICA HUGHES *Professor of Dentistry*
D.M.D., Tufts, 1909. [Courses for Dental Hygienists]
Director of Courses for Dental Hygienists.
- JAMES WESLEY JOBLING *Professor of Pathology*
M.D., Tennessee Medical, 1897.
Director and Attending Pathologist, Presbyterian Hospital; Consulting Pathologist, Sloane Hospital.
- CLAUS W. JUNGBLUT *Professor of Bacteriology*
M.D., Berne, 1921.
- MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- BARRY GRIFFITH KING *Assistant Professor of Physiology*
A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.
- WILLIAM LEFKOWITZ *Assistant Professor of Dentistry*
D.D.S., Columbia, 1924. [Oral Histology]
- HAROLD JUDSON LEONARD *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915. [Periodontology]
Attending Dental Surgeon, Presbyterian Hospital.
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914.
Director, Psychiatric Institute and Hospital; Director and Attending Psychiatrist, Vanderbilt Clinic; Consultant in Psychiatry, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906.
Consultant in Pharmacology, Mount Sinai Hospital.
- GEORGE FRANK LINDIG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924. [Operative]
- JOSEPHINE EMILY LUHAN *Assistant Professor of Dentistry*
D.D.S., New York College of Dental and [Courses for Dental Hygienists]
Oral Surgery, 1912.
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921. [Dentistry for Children]
- FRANCIS STEPHEN McCAFFREY *Associate Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon, Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Consulting Oral Surgeon, Manhattan State Hospital, and St. Joseph's Hospital, Yonkers, N. Y.
- DONALD JOHN W. McLAUGHLIN *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1926. [Prosthetics]
- LOIS COFFEY MOSSMAN *Associate Professor of Education*
B.S., Columbia, 1911; A.M., 1920; Ph.D., 1924. (Teachers College)
- EDWARD GERALD MURPHY *Assistant Professor of Dentistry*
D.D.S., Michigan, 1924. [Orthodontics]
- CARL REUBEN OMAN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1914. [Operative]
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914. [Oral Surgery]
Attending Oral Surgeon, City Hospital; Assistant Attending Oral Surgeon, Babies Hospital and Vanderbilt Clinic; Consultant in Oral Surgery, Swedish, Vassar, and Grasslands Hospitals; Consulting Oral Surgeon, Yonkers General Hospital and Lawrence Hospital, Bronxville.

- FRANK HENRY PIKE *Associate Professor of Physiology*
A.B., Indiana, 1903; Ph.D., Chicago, 1907.
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
D.D.S., Marion Sims Dental College, 1903. [Prosthetics]
Assisting Attending Dental Surgeon, Presbyterian Hospital.
- WILLARD COLE RAPPLEYE *Dean and Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922; Sc.D., Trinity (Conn.), 1939.
Dean, College of Physicians and Surgeons; Director, New York Post-Graduate Medical School.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Associate Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1929; [Dentistry for Children]
D.D.S., Columbia, 1930.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
D.D.S., 1922.
Oral Surgeon, O.P.D., Mount Sinai Hospital; Attending Oral Surgeon, Jewish Memorial Hospital; Associate Attending Dental Surgeon, Presbyterian Hospital.
- ERNEST LYMAN SCOTT *Associate Professor of Physiology*
B.S., Ohio Wesleyan, 1902; M.S., Chicago, 1911; Ph.D., Columbia, 1914.
- AURA EDWARD SEVERINGHAUS *Associate Professor of Anatomy*
B.S., Columbia, 1916; A.M., 1920; Ph.D., 1929.
- HARRY H. SHAPIRO *Assistant Professor of Anatomy*
D.M.D., Tufts, 1918.
- HANS SMETANA *Assistant Professor of Pathology*
M.D., Vienna, 1922.
Assistant Attending Pathologist, Presbyterian Hospital.
- GILBERT PERCIVAL SMITH *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
Associate Consultant in Anatomy, Presbyterian Hospital.
- LEWIS RIDDELL STOWE *Associate Professor of Dentistry*
D.D.S., Minnesota, 1916. [Dentistry for Children]
Associate Attending Dental Surgeon, Presbyterian Hospital;
Attending Dental Surgeon, Babies Hospital; Consultant in Dental and Oral Surgery, Neurological Institute.
- ARTHUR CRANSTON TOTTEN *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1926. [Orthodontics]
- LEUMAN MAURICE WAUGH *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Orthodontics]
Consultant in Orthodontics, New York Infirmary for Women and Children.
- JOSEPH P. WEINMANN *Assistant Professor of Dentistry*
M.D., Vienna, 1923. [Oral Anatomy]
- HORATIO BURT WILLIAMS *Dalton Professor of Physiology*
A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
Consultant in Physiology, Presbyterian Hospital; Consulting Physician, Greenwich Hospital;
Consultant, Neurological Institute.

- HARRY ALLEN YOUNG Assistant Professor of Dentistry
D.D.S., Indiana, 1919. [Prosthetics]
- DANIEL E. ZISKIN Associate Professor of Dentistry
D.D.S., Minnesota, 1917. [Diagnosis]
Associate Attending Dental Surgeon, Presbyterian Hospital.
-
- HOWARD T. APPEGATE, D.D.S. Assistant in Dentistry
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]
- HERBERT DELBERT AYERS, JR., A.B., D.D.S. Instructor in Dentistry
Assistant Visiting Oral Surgeon, Queens General Hospital. [Dental Materials]
- WILLIAM WELLS BAADÉ, D.D.S. Assistant in Dentistry
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]
- CARLISLE C. BASTIAN, D.D.S. Special Lecturer in Dentistry
[Prosthetics]
- WALTER REGINALD BEAVEN, D.D.S. Instructor in Pharmacology
- EDWARD BECKER, D.M.D. Assistant in Dentistry
[Oral Surgery]
- FRANK E. BEUBE, L.D.S., D.D.S. Instructor in Dentistry
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Periodontology]
- RICHARD J. BING, B.S., M.D. Instructor in Physiology
- FREDERICK BIRNBERG, D.D.S. Special Lecturer in Dentistry
- NORMAN WINGATE BOYD, B.S., D.D.S. Assistant in Dentistry
[Prosthetics]
- KENNETH FULTON CHASE, D.M.D. Instructor in Dentistry
Consulting Dental Surgeon, New York Eye and Ear Infirmary ;
Clinical Assistant, Roosevelt Hospital. [Oral Surgery]
- J. FRANCES COBBAN, R.N. Special Lecturer in Dentistry
[Courses for Dental Hygienists]
- JAMES GROWNEY CUNNINGHAM, B.S., D.D.S. Assistant in Dentistry
[Diagnosis]
- JOSEPH ANTHONY CUTTITA, M.S., D.D.S. Assistant in Dentistry
[Diagnosis]
- ROBERT CYRIL DEVINE, B.S., D.D.S. Instructor in Dentistry
Resident Dentist, New York State Psychiatric Institute and Hospital. [Oral Surgery]
- SOLOMON DISICK, B.S., M.D. Instructor in Pharmacology
- FREDERICK SCHULKEN DOSCHER, B.S., D.D.S. Assistant in Dentistry
[Oral Surgery]
- JACOB ERDREICH, D.M.D. Assistant in Dentistry
Clinical Assistant, New York Post-Graduate Hospital. [Oral Anatomy]
- GEORGE BOYD FINCH, B.S., D.D.S. Assistant in Dentistry
[Operative]
- GENEVIEVE FOLEY, A.M. Assistant in Bacteriology
- MARIO A. FRANZONE, D.D.S. Assistant in Dentistry
[Oral Surgery]

- HERBERT PHILIP FRITZ, B.S., D.D.S. *Instructor in Dentistry*
[*Operative*]
- HARRY ALLEN GALTON, D.D.S. *Instructor in Dentistry*
[*Orthodontics*]
- BENJAMIN WILLIAM GLICK, A.M., M.D. *Instructor in Anatomy*
Adjunct Surgeon, City Hospital; Clinical Assistant in Surgery, Mount Sinai Hospital.
- ISIDORE HARRY GOLDBERGER, M.D. *Special Lecturer in Dentistry*
[*Courses for Dental Hygienists*]
Assistant Clinical Professor of Pediatrics, New York University and Bellevue Hospital Medical College; Assistant Director of Health Education, Board of Education, New York City; Attending Pediatricist, Willard Parker Hospital; Associate Attending Pediatricist, Home for Hebrew Infants; Consulting Pediatricist, Morrisania General Hospital.
- EDWARD A. GRABER, M.D. *Assistant in Pathology*
- IRVING R. HARDY, D.M.D. *Special Lecturer in Dentistry*
[*Prosthetics*]
- MAURICE JOHN HICKEY, D.M.D., M.D. *Assistant in Surgery*
Junior Resident in Surgery, Presbyterian Hospital.
- EDWARD HODNETT, Ph.D. *Lecturer in English*
[*Columbia College*]
- ROBERT HENRY HOFFMAN, D.D.S. *Assistant in Dentistry*
[*Oral Anatomy*]
- KATHERINE FLORENCE HOLLIS *Instructor in Dentistry*
[*Courses for Dental Hygienists*]
- MELVILLE HUMBERT, A.B., B.S., D.D.S. *Instructor in Pharmacology*
- IRVIN LELAND HUNT, JR., D.D.S. *Instructor in Dentistry*
[*Operative*]
- LEWIS EDWARD JACKSON, D.D.S. *Instructor in Dentistry*
[*Orthodontics*]
- SAUL JARCHO, A.M., M.D. *Associate in Pathology*
- HENRY JUNEMANN, A.B., D.D.S. *Instructor in Dentistry*
[*Prosthetics*]
- EDWARD HENRY KOCH, JR., A.B., D.D.S. *Assistant in Dentistry*
[*Operative*]
- BENNETT M. LATHROP, B.S., D.D.S. *Assistant in Dentistry*
[*Dentistry for Children*]
- JULIUS K. LITTMAN, M.D. *Instructor in Anatomy*
Assistant Adjunct in Surgery, Bronx Hospital.
- L. VOSBURGH LYONS, M.D. *Associate in Neurology*
Attending Neurologist, Neurological Institute, City Hospital, and Vanderbilt Clinic; Consulting Neurologist, Englewood Hospital and State School for Boys, Warwick, N. Y.
- MORELL DION MCKENZIE, D.D.S. *Instructor in Dentistry*
[*Prosthetics*]
- JOSEPH L. MCSWEENEY, D.D.S. *Assistant in Dentistry*
[*Oral Surgery*]
Visiting Dental Surgeon, St. Vincent's Hospital.
- EMANUEL A. MANGINELLI, M.D. *Instructor in Neurology*

ROBERT IRVING MASON, A.B., D.D.S.	Assistant in Dentistry [Operative]
HENRY MILCH, A.B., M.D.	Instructor in Anatomy
Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct Surgeon, Riverside Hospital.	
MILTON ROBERT MILLER, B.S., D.D.S.	Instructor in Dentistry [Operative]
Attending Dental Surgeon, Unity Hospital.	
RUTH A. MILLER, Ph.D.	Instructor in Anatomy
WILLIAM MILLER, B.S., D.D.S.	Assistant in Dentistry [Operative]
HARRY NEIVERT, M.D.	Instructor in Otolaryngology
FERDINAND G. NEUROHR, D.D.S.	Special Lecturer in Dentistry [Prosthetics]
ROBERT W. NORTHROP, D.D.S.	Instructor in Dentistry [Oral Surgery]
NATHANIEL A. OLINGER, B.S., D.D.S., D.Sc.	Assistant in Dentistry [Prosthetics]
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S. . . .	Special Lecturer in Dentistry [Orthodontics]
ENID TRIBE OPPENHEIMER, B.Sc.	Instructor in Physiology
ELIZABETH E. PAINTER, Ph.D.	Instructor in Physiology
HENRY JOSEPH POWELL, B.S., D.D.S.	Instructor in Dentistry [Diagnosis]
BENJAMIN SALZER, M.D.	Instructor in Neurology
LOUIS SCHORR, D.D.S.	Special Lecturer in Dentistry [Prosthetics]
ALBIN ROBERT SEIDEL, D.M.D.	Instructor in Dentistry [Oral Surgery]
Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital.	
CLIFFORD L. SPINGARN, A.B., M.D.	Instructor in Pharmacology
ELIAS L. STERN, B.S., M.D.	Instructor in Anatomy
Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.	
FERDINAND A. STEWART, JR., A.B., D.D.S.	Instructor in Dentistry [Oral Surgery]
BARBARA B. STIMSON, A.B., M.D., Med.Sc.D	Associate in Surgery
HARRY STRUSSER, D.D.S.	Special Lecturer in Dentistry
Chief of Dental Division, Department of Health, New York City.	
BERNERD OWEN AMOS THOMAS, M.S., D.D.S.	Instructor in Dentistry [Oral Histology]
WILLIAM ANTHONY VERLIN, A.B., D.D.S.	Assistant in Dentistry [Dentistry for Children]
GENEVA HASTINGS WALLS	Instructor in Dentistry [Courses for Dental Hygienists]
GLENN H. WHITSON, D.D.S.	Assistant in Dentistry [Orthodontics]

HAROLD C. WIGGERS, Ph.D.	<i>Instructor in Physiology</i>
WILLIAM CARL WOHLFARTH, JR., Ph.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]
HAROLD S. WOODRUFF, D.D.S.	<i>Instructor in Dentistry</i> [Prosthetics]
EDWARD VICTOR ZEGARELLI, A.B., D.D.S.	<i>Instructor in Dentistry</i> [Diagnosis]
HAROLD JACOB ZERR, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]

CLINICAL ASSISTANTS

RALPH BECKER, B.S., D.D.S.	ESSE ROSE, D.D.S.
HARRY DARROW, D.D.S.	FREDERICK ROTHENBERG, D.D.S.
SAMUEL R. DRELICH, D.D.S.	WILLIAM JOSEPH SAVOY, B.S., D.D.S.
JOSEPH R. HORN, D.D.S.	HERBERT F. SILVERS, B.S., D.D.S.
MAURICE KAVELLE, B.S., D.D.S.	BENJAMIN TENENBAUM, B.S., D.D.S.
JESSE L. LEFCOURT, B.S., D.D.S.	DONALD B. WAUGH, D.D.S.
THEODORE R. PARKER, D.M.D.	LESTER A. WOLFSON, D.D.S.
WILBUR PREZZANO, B.S., D.D.S.	DAVID ZEISLER, D.D.S.
GUSTAVE REICH, D.D.S.	

PRESBYTERIAN HOSPITAL DENTAL SERVICE

ALBIN R. SEIDEL, D.M.D., *Director**Attending Dental Surgeons*

ADOLPH BERGER, D.D.S.	HAROLD J. LEONARD, A.B., D.D.S.
LEROY L. HARTMAN, D.D.S., Sc.D.	FRANCIS S. McCAFFREY, B.S., D.D.S.
ISADOR HIRSCHFELD, D.D.S.	ALBIN R. SEIDEL, D.M.D.
HOUGHTON HOLLIDAY, A.B., D.D.S.	

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	LEWIS R. STOWE, D.D.S.
JOSEPH SCHROFF, B.S., M.D., D.D.S.	DANIEL E. ZISKIN, D.D.S.

Assisting Attending Dental Surgeons

HOWARD T. APPLGATE, D.D.S.	FRANK E. BEUBE, L.D.S., D.D.S.
WILLIAM W. BAADÉ, D.D.S.	JOHN F. RALSTON, D.D.S.

Interns

TYLER W. CAGLE, B.A., D.D.S.	JOHN LLOYD CAMPBELL, D.D.S.
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PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S., *Attending Oral Surgeon*

COMMITTEES

Administration

Dean RAPPEYE, *Chairman*, Professors BODECKER, H. S. DUNNING, HARTMAN,
HOLLIDAY, HOYT, LEONARD, and WAUGH

Curriculum

Professor HOLLIDAY, *Chairman*, Professors BERGER, CAHN, HARTMAN,
HOYT, LEONARD, and LIEB

Library

Professor HOLLIDAY, *School of Dental and Oral Surgery Representative*

Extension and Graduate Courses

Professor WAUGH, *Chairman*, Professors BERGER and McBEATH

Research

Professor BODECKER, *Chairman*, Professors CAHN, KARSHAN,
McBEATH, and H. SHAPIRO

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Provost of the University</i>
PHILIP M. HAYDEN, A.M.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Director of University Admissions</i>
CHARLES C. WILLIAMSON, Ph.D., Litt.D.	<i>Director of Libraries</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Director of Buildings and Grounds</i>
REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
THOMAS A. MCGOEY, M.S.	<i>Director of University Residence Halls</i>
ARTHUR E. MATZKE, A.B., B.S., C.E.	<i>Head of Men's Residence Halls</i>
KATHARINE CAMPBELL REILEY, Ph.D.	<i>Head of Johnson Hall</i>
MRS. JULIANA S. HASKELL, Ph.D.	<i>Adviser to Women Graduate Students</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.M.	<i>Alumni Secretary</i>
THOMAS P. FLEMING, M.S.	<i>Medical Librarian</i>

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission, and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course in dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments with students of the College of Physicians and Surgeons.

STUDENTS

A student who has fulfilled the preliminary qualifications for candidacy for a degree, certificate, or diploma in regular course is enrolled as a matriculated student of the University. Acceptance is based on grounds of character and health as well as on the fulfillment of academic requirements. A period of regular attendance upon



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE SCHOOL
OF DENTAL AND ORAL SURGERY

all stated academic exercises amounting to at least one academic year must be completed by every candidate for a degree.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

In exceptional circumstances a student not enrolled as a matriculated student may be admitted to the University as a nonmatriculated student with permission to attend such courses of instruction as he is qualified to take but not as a candidate for a degree, certificate, or diploma in regular course. Nonmatriculated students are expected to conform to the same standards of attendance and scholarship as are required of matriculated students. Nonmatriculated students may receive formal statement of the satisfactory completion of any course.

Each person whose registration has been completed will be considered a student of the University during the period for which such registration is held valid. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year (see Academic Calendar).

An application for a degree or certificate, other than the degrees of Doctor of Philosophy, Doctor of Medical Science, Doctor of the Science of Law, and Doctor of Education, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the Uni-

versity; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school or faculty concerned may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 100,000 volumes and about 10,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. It has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,000 current journals, and nearby are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks.

A series of lectures and seminars on the history of medicine is arranged for by the Library Committee during the school year.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry, and supplement the special collections available in the College of Physicians and Surgeons, and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays,

from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation. The University Medical Officer, Dr. W. H. McCastline, has supervision of all matters affecting the health of the student body.

RESIDENCE HALLS

The University maintains on the Campus at 116th Street or immediately adjacent thereto Residence Halls for men and women, information about which will be furnished on request by the Secretary of the University, 213 Low Memorial Library. The office of the Director of University Residence Halls is 125 Livingston Hall.

RESIDENCE BUREAU

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the University Residence Bureau in Alumni House.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main floor, reached by the Campus entrance, are the offices of the three Religious Counselors. On the upper floor are the offices of the Chaplain of the University and his staff. An auditorium seating 300 people is used by the Department of English and Comparative Literature for dramatic composition and production. The lower floor, entered from Broadway, is occupied by the office of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on B floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services, with substantial savings to Columbia students.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$1.25 in cloth and \$.50 in paper. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION,
AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application during the Winter Session of the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630

West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is successful completion of three full years at an acceptable college of arts and sciences, which must include successful completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

English composition and literature, 6 semester hours.

Physics, 6 semester hours.

Biology, 6 semester hours.

Chemistry (including an approved course in organic chemistry), 12 semester hours.

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary, but so difficult to attain in later years.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

Admission to Advanced Standing. Students will not be admitted to advanced standing upon examination, but only upon a satisfactory record from their school of previous residence. Provided they are eligible for the dental student qualifying certificate required by the New York State Department of Education and can submit evidence of the satisfactory completion of the entrance requirements of this school, candidates who have completed, without conditions, one or two years of study in a dental school registered in the state of New York, including courses equivalent to those given at this school, are eligible to apply for admission to the second or third years, respectively. Students applying for admission to the third year must have passed the partial examination of the New York State Board of Dental Examiners.

Owing to the lack of uniformity in the arrangement of the first and second year curricula in the various dental schools, a transfer usually can be accomplished with the least adjustment at the end of the second year.

Application blanks may be obtained from the Dean's office.

SUMMER SESSION

No regular courses will be offered during the Summer Session of 1940. Those who have successfully completed all the requirements of the third and fourth years may elect work in clinical practice, without credit, from June 10 to July 19, 1940, subject to the approval of the departments concerned. Students having deficiencies in technical or clinical courses must register for those courses by June 10, 1940. Fees will be charged on the basis of \$10 per trimester credit.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. During the year 1939-1940 short refresher courses were offered in oral surgery, orthodontics, and periodontia. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, mem-

bership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country, and membership in good standing in the applicant's national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized twelve-month course has been given since 1927 to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as qualification for admission. For information regarding the curricula leading to the degrees of Master of Arts or Doctor of Philosophy under these Faculties see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. The course is open to graduate dentists who have completed satisfactory courses in the fundamental sciences and who hold a Bachelor of Science or Bachelor of Arts degree. For information regarding course content, registration, and fees apply to the DeLamar Institute of Public Health, 600 West 168th Street, New York City.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$6.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed for dental students:

- | | |
|---|---------|
| (a) University Fee | |
| 1. For each Winter or Spring Session or any part thereof | \$10.00 |
| 2. For each Summer Session or any part thereof | 7.00 |
| (b) Tuition Fee | |
| 1. For the course in dentistry for a Winter or Spring Session in the case of a student enrolled for the full course | 250.00 |
| For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes. | |
| (c) Fee for Application | |
| 1. For a degree | \$20.00 |
| 2. For a certificate | 10.00 |
| (d) Privileges | |
| 1. Late registration or late application for a degree or certificate | 6.00 |
| 2. Deficiency or special examinations | 3.00 |
| 3. Late application for deficiency or special examinations | 3.00 |
| 4. Renewal of application for any degree or certificate | 1.00 |
| (e) Student Activities | |
| 1. For all students, <i>Columbia Dental Review</i> | 1.50 |
| 2. For sophomores, juniors, and seniors, junior membership in the American Dental Association | 3.00 |
| 3. Student activities | .50 |

(f) Case Rental

For sophomores, juniors, and seniors, rental of one instrument case \$5.00

(g) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the second Saturday of the Winter or Spring Session, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(h) Deposit 20.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the following Winter Session, it will not be returned. If he registers at the School in the following September, the amount of the acceptance fee will be deducted from his tuition fees for the Winter Session.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100 depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the students' best interests.

Lockers. Each student will be assigned a locker on entering and will be required to supply himself with one combination lock as prescribed by the School. Locks are \$1.00 each.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

Following is an itemized estimate of the average expenses of a full-time student in the School of Dental and Oral Surgery for the academic year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year and can be accepted as applicable for the year 1940-1941 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$553	\$548
Room	200	170
Board	300	250
Books	60	30
Instruments (see below)	160	160
Laundry	40	28
	<hr/>	<hr/>
	\$1,313	\$1,186

The approximate cost of instruments for the four-year course is as follows: first year, \$25; second year, \$280; third year, \$150; fourth year, \$35. In addition, the microscope required at the beginning of the course will cost between \$60 and \$157. The cost of books will vary, depending upon the choice made from the selection offered. Instruments are to be paid for at the opening of the school year.

EXAMINATIONS AND STANDING

Final examinations are held at the end of the course, and reexaminations for students with conditions are held within one month after the close of the regular academic year.

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, reexamination required; Inc, incomplete, completed work must be submitted within the time limit set by the instructor. One reexamination will be allowed in a course graded F; if the examination is passed the grade will be C.

No student will be recommended for the degree of Doctor of Dental Surgery until he has completed all the required practical work and passed satisfactory examinations in all the subjects of the entire course.

CONDITIONS FOR ADVANCEMENT

Advancement will be granted to such students as have received passing grades in all subjects. A student who has failed in any one of his courses is not allowed to go on with his class until he has removed that failure to the satisfaction of the head of the department. A student who has failed two courses in the first year may be allowed reexamination in the failed courses provided that the failures do not com-

prise any two out of the three following courses: gross anatomy, physiology, and biological chemistry. A student who has failed in two courses of the second, third, or fourth years may be allowed reëxamination in the two failed courses provided the failed subjects do not include operative dentistry, prosthetic dentistry, or crown and bridge work, and that the total hours of the two courses failed do not exceed one third of the total course hours for that year.

Students who receive conditions or failures amounting to one-third or more of the year's work must repeat the work of the entire year if allowed to reregister. A student may repeat an entire year only once during his dental course and may not repeat any other year later, unless the Faculty of the School votes to suspend this rule on recommendation of the class Faculty under which the student has been working.

The class Faculties have general supervision of students' work and the application of these regulations to individual cases. The Faculty reserves the right to refuse readmission to any student who, upon recommendation of his class Faculty, is believed to be unsuited to the conditions of study and advancement in the School. The Faculty reserves the right to amend the schedule of studies from time to time at its discretion, without further notice.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character, and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the

United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examinations or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize to be known as the Ella Maria Ewell Medal will be awarded annually to that student of the School of Dental and Oral Surgery who may, in the judgment of the Faculty, be most proficient in some subject of dentistry. The branch of dentistry for which the award is made will be determined by the executors of the will of Glover C. Beckwith-Ewell.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

The E. D. Newman award is made annually by the Alpha Omega Fraternity to the member of the graduating class who has received the highest scholastic average for the entire professional course.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who in the opinion of the Faculty shows the greatest promise.

An annual certificate award for proficiency in dentistry for children, to begin in 1940, has been established by the *Dental Columbian* of the Class of 1939.

OMICRON KAPPA UPSILON

Epsilon Epsilon Chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and especially character of outstanding quality in members of the senior class. The leading 12 percent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to sophomores, juniors, and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF
DENTAL AND ORAL SURGERY

OFFICERS

President, JAMES M. DUNNING, D.D.S.

Vice-President, LOUIS M. CITRON, D.D.S.

Secretary, JOHN J. MAYERS, D.D.S.

Treasurer, VICTOR SIEBEL, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to the Board of Governors of Columbia Alumni Federation, DRS. JOSEPH R. HORN, MANUEL M. MASLANSKY, and R. M. BRISTOL.

Any graduate, former student, Faculty member, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

<i>Subject</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Sessions</i>	<i>Credits</i>	<i>Academic Hours</i>
FRESHMAN YEAR:				
Anatomy, embryology	2		2	20
Anatomy, gross	5	10	15	310
Anatomy, microscopic	4	4	8	160
Anatomy, neuro	2	1	3	60
Anatomy, oral	2	4	6	130
Biochemistry	4	4	8	160
Histology, oral		2	2	60
Physiology	4	6	10	210
			<hr/> 54	<hr/> 1,110
SOPHOMORE YEAR:				
Bacteriology	4	3	7	130
Crown and bridge	1	3	4	100
Oral hygiene	2		2	20
Operative dentistry	2	8	10	260
Pathology	4	5	9	180
Pharmacology	4	2	6	100
Physical properties		2	2	60
Prophylaxis		1	1	30
Prosthetic dentistry	2	9	11	290
Psychopathology	1		1	10
Radiology	1		1	10
Surgery, oral	2		2	20
			<hr/> 56	<hr/> 1,210
JUNIOR YEAR:				
Anatomy, applied	1		1	10
Bacteriology	1		1	10
Crown and bridge				
Technic	1	5	6	160
Porcelain		2	2	60
Round wire		1	1	30
Diagnosis, dental	3	1	4	60
Operative dentistry	1	10	11	310
Orthodontics	2	3	5	110
Pathology, oral	3	2	5	90
Periodontology		1	1	30
Pharmacology, applied	1		1	10
Prosthetic dentistry	2	5	7	170
Public health	1		1	10
Radiology		1	1	30
Surgery, oral	1	1	2	40
Theory and practice	1		1	10
			<hr/> 50	<hr/> 1,140
SENIOR YEAR:				
Crown and bridge	1	7	8	220
Dentistry for children	1	3	4	100
Diagnosis, dental		1	1	30
Operative dentistry	2	13	15	410
Periodontology	2	1	3	50
Practice of medicine	6	1	7	90
Prosthetic dentistry	1	6	7	190
Surgery, oral	7	1	3	100
Theory and practice	2		2	20
			<hr/> 50	<hr/> 1,210

COURSES OF INSTRUCTION

For purposes of instruction the work of each year is scheduled in three trimesters, which are designated as First, Second, and Third. The unit of credit used is the trimester credit, which signifies approximately three academic hours of work a week for one trimester. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work requiring no outside study it represents three hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 200 are open to candidates for the degree of Doctor of Dental Surgery in the first and second years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth years.

The outline on page 26 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Each senior is required to present a thesis representing original reading, scientific research, or both. This shall be completed under the immediate supervision of Associate Dean HOLLIDAY and with the help of an adviser in the field selected.

Members of the fourth year class will also be required to take a comprehensive examination, which will be given near the end of the academic year, and the results will be considered as one of the indications of the fitness of the candidates for graduation.

ANATOMY

Anatomy 101—Oral anatomy. A total of one hundred and thirty hours. First year. 6 trimester credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the growth and development of the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. A total of sixty hours. First year. 2 trimester credits. Professors BODECKER, APPLEBAUM, and LEFKOWITZ.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. A total of one hundred and sixty hours. First year. 8 trimester credits. Professors P. E. SMITH, COPENHAVER, ENGLE, SEVERINGHAUS, and assistants.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. A total of three hundred and ten hours. First year. 15 trimester credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. A total of twenty hours of lecture. 2 trimester credits. First year. Professors DETWILER, COPENHAVER, and ROGERS.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Two hours lecture and four hours laboratory a week for ten weeks. First year. 3 trimester credits. Professors ELWYN and BRICKNER, Drs. SALZER, LYONS, and MANGINELLI.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. One hour lecture and demonstration a week for one trimester. Third year. 1 trimester credit. Professors ROGERS and SHAPIRO.

A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Nine hours a week First Trimester. Second year. 3 trimester credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Four hours a week First Trimester. Second year. 4 trimester credits. Professor JUNGBLUT and staff.

Lectures given to the dental and medical students together.

Bacteriology 253—Bacteriology and etiology of dental disease. One hour a week Third Trimester. 1 trimester credit. Third year. Professor ROSEBURY.

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Two hours lecture and six hours laboratory a week for two trimesters. 8 trimester credits. Professor KARSHAN and assistants.

A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. One hour lecture a week for one trimester and approximately ninety hours of technic. Second year. 4 trimester credits. Professors HOYT and McLAUGHLIN, Drs. WOHLFARTH and ZERR.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. One hour lecture a week for one trimester and approximately one hundred and fifty hours of technic. Third year. 6 trimester credits. Professors HOYT and McLAUGHLIN, Drs. WOHLFARTH and ZERR.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 207—Porcelain technic. Approximately sixty hours of technic. Third year. 2 trimester credits. Professor McLAUGHLIN and Dr. ZERR.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Approximately thirty hours of technic. Third year. 1 trimester credit. Professor GILLETT and Dr. JUNEMANN.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. One hour lecture a week for one trimester. Fourth year. 1 trimester credit. Professor HOYT.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Approximately two hundred and ten hours of clinical practice. Fourth year. 7 trimester credits. Professors HOYT, G. P. SMITH, McLAUGHLIN, Drs. BOYD, WOODRUFF, and JUNEMANN.

Clinical construction of crown and bridgework.

DENTISTRY FOR CHILDREN

Dentistry for Children 202—Dentistry for children lectures and clinic. One hour a week lecture for one trimester and three hours a week clinic for three trimesters. Fourth year. 4 trimester credits. Professors McBEATH, STOWE, and ROSENSTEIN.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. One hour a week lecture for three trimesters and a total of thirty hours clinic. Third year. 4 trimester credits. Professors ZISKIN and LEONARD and clinical staff.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal dys-harmonies.

Diagnosis 213—Dental diagnosis clinic. A total of thirty hours. Fourth year. 1 trimester credit. Professors ZISKIN, STOWE, and ROSENSTEIN and the clinical staff.

Continuation of clinic of *Diagnosis 212*.

HYGIENE AND PROPHYLAXIS

Hygiene 121—Hygiene and prophylaxis. Three hours a week for one trimester. Second year. 1 trimester credit. Professors HUGHES and LUHAN and assistants.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

MEDICINE

Medicine 278—General survey of medicine. Two hours a week of lectures and conferences for three trimesters, and thirty hours of clinic in three trimesters. Fourth year. 7 trimester credits. Professor McBEATH and associates.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Operative dentistry technic. A total of two hundred and forty hours in three trimesters. Second year. 8 trimester credits. Professors HARTMAN and LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

Lectures and laboratory on operative instruments and materials, their care and uses, and the technic of cavity preparations, fillings, and gold inlays.

Operative Dentistry 132—Operative dentistry lectures. One hour a week for two trimesters. Second year. 2 trimester credits. Professors HARTMAN and LINDIG, Drs. HUNT and M. R. MILLER.

Lectures on laboratory procedure in operative dentistry.

Operative Dentistry 233—Operative dentistry lectures. One hour a week for one trimester. Third year. 1 trimester credit. Professors HARTMAN and OMAN.

Lectures and conferences on operative dentistry procedures.

Operative Dentistry 234—Operative dentistry technic and clinic. Approximately three hundred hours. Third year. 10 trimester credits. Professors HARTMAN, BUCHBINDER, OMAN, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

The technic of porcelain inlay and clinical practice and demonstrations.

Operative Dentistry 235—Operative dentistry lectures. One hour a week for two trimesters. Fourth year. 2 trimester credits. Professors HARTMAN and BUCHBINDER.

Conference course on problems in operative dentistry and root canal therapy.

Operative Dentistry 236—Operative dentistry clinic. Approximately three hundred and ninety hours. Fourth year. 13 trimester credits. Professors HARTMAN, BUCHBINDER, OMAN, LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

Clinical practice and demonstrations in operative dentistry and root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. One hour a week for two trimesters. Second year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on scientific findings relating to the prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Orthodontic technic. Sixty hours laboratory. Third year. 2 trimester credits. Professor BARBER and staff.

Laboratory instruction in free-hand soldering, the fundamental technic of making labial and lingual arches, space retainers and habit breakers.

Orthodontics 242—Orthodontic lectures and demonstrations. Two hours lecture a week for one trimester and a total of thirty hours of demonstrations in the clinic. Third year. 3 trimester credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, and Drs. JACKSON and GALTON.

Orthodontic fundamentals with special emphasis on preventive malocclusion by early recognition and correction of the predisposing factors.

PATHOLOGY

Pathology 150—General and special pathology. Two hours lecture and nine hours laboratory a week First Trimester and two hours lecture and five hours laboratory a week Second Trimester. Second year. 9 trimester credits. Professors JOBLING and SMETANA and assistants.

This course covers the subject matter of *Pathology 101FS* in the Medical School, but in abbreviated form.

Pathology 246—Oral pathology. One hour a week lecture for three trimesters and six hours laboratory a week for one trimester. Third year. 5 trimester credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Ten hours of conference First Trimester. Fourth year. No credit. Elective. Professor CAHN.

Conferences on the clinical application of oral pathology.

PERIODONTOLOGY

Periodontology 251—Periodontology clinic. Thirty hours. Third year. 1 trimester credit. Professors HIRSCHFELD, HOLLIDAY, LEONARD, and Dr. BEUBE.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. One hour a week for two trimesters. Fourth year. 2 trimester credits. Professors HIRSCHFELD and LEONARD.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontology clinic. Thirty hours. Fourth year. 1 trimester credit. Professors HIRSCHFELD, HOLLIDAY, LEONARD, and Dr. BEUBE.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. One lecture, one conference, and one three-hour laboratory period for two trimesters. Second year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, HUMBERT, DISICK, and SPINGARN.

In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. One hour a week for one trimester. Third year. 1 trimester credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSICAL PROPERTIES OF DENTAL MATERIALS

Physical Properties 126—Physical properties of dental materials. Three hours a week for two trimesters. Second year. 2 trimester credits. Dr. AYERS.

Metallurgical processes and apparatus and physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Two hours lecture, one hour conference, and eight hours laboratory a week, Second and Third Trimesters. First year. 10 trimester credits. Professor GREGERSEN and assistants.

This course is equivalent to *Physiology 101* in the Medical School, with medical and dental students taking the lectures together.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. One hour lecture a week for two trimesters, and approximately two hundred and seventy hours of technic. Second year. 11 trimester credits. Professors YOUNG and RALSTON, Drs. McKENZIE and JUNEMANN.

Technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. One hour a week for two trimesters. Third year. 2 trimester credits. Professors YOUNG and G. P. SMITH.

Examination, classification, application of anatomical considerations and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Approximately one hundred and fifty hours of clinical practice. Third year. 5 trimester credits. Professors YOUNG and RALSTON, Drs. McKENZIE and JUNEMANN.

Clinical construction of full and partial dentures.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

Prosthetics 263—Prosthetic clinic. Approximately one hundred and eighty hours of clinical practice. Fourth year. 6 trimester credits. Professors HOYT, GILLETT, YOUNG, McLAUGHLIN, G. P. SMITH, RALSTON, and Drs. McKENZIE, JUNEMANN, and OLINGER.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor HOYT and guest lecturers.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

PSYCHIATRY

Psychiatry 150—Psychopathology. One hour a week Second Trimester. Second year. 1 trimester credit. Professor LEWIS.

Lectures in psychobiology; the instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances. Principles of mental hygiene and environmental adjustments.

PUBLIC HEALTH

Public Health 222—Public health and community dentistry. One hour a week for one trimester. Third year. 1 trimester credit. Professor W. B. DUNNING.

First given in 1939-1940.

Lectures and conferences on community dentistry and public health practice.

RADIOLOGY

Radiology 165—Oral radiology conference. One hour a week for one trimester. Second year. 1 trimester credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Thirty hours. Third year. 1 trimester credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. One hour a week for two trimesters. Second year. 2 trimester credits. Professor PARKER.

Lectures and conferences on general surgical diseases and the principles of their treatment.

Surgery 270—Oral surgery. One hour a week lecture for one trimester. Third year. 1 trimester credit. Professors PARKER and McCaffrey.

Lectures and conferences on local and general anesthesia and exodontia.

Surgery 271—Oral surgery clinic. A total of thirty hours. Third year. 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia.

Surgery 272—Oral surgery. Two hours a week for two trimesters. Fourth year. 2 trimester credits. Professors H. S. DUNNING and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Surgery 273—Oral surgery. A total of thirty hours each of clinic and demonstrations. Fourth year. 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and assistants.

Further clinical practice and demonstration on local and general anesthesia, exodontia, oral surgical operations, and oral pathological and maxillo facial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics. One hour a week for one trimester. Third year. 1 trimester credit. Professor W. B. DUNNING.

Lecture and conference course with collateral reading on ethics and dental ethics.

Theory and Practice 282—Dental jurisprudence and history. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor GILLET.

Lecture and conference course with collateral reading.

Theory and Practice 283—Dental economics. One hour a week for one trimester. Fourth year. 1 trimester credit. Professor G. P. SMITH.

Lecture and conference course in dental economics and office management.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Cunningham, *Manual of Practical Anatomy*, \$11.55 a set. Choice of: Cunningham, *Textbook of Anatomy*, \$10.00; Gray, *Anatomy*, \$10.00; Piersol, *Human Anatomy*, \$10.00.

Microscopic anatomy. Bailey, *Textbook of Histology* (9th ed.), \$6.00.

Neuroanatomy. Choice of: Bailey, *Histology* (7th ed.); Ranson, *Anatomy of the Nervous System*, \$6.50.

Oral anatomy. Diamond, *Dental Anatomy* (2d revised ed.), \$4.00.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology* (Columbia ed.), \$3.00; *Laboratory Manual and Drawing Notebook, Oral Histology and Embryology*, \$1.00.

BACTERIOLOGY. Gay, et al, *Agents of Disease and Host Resistance*, \$10.00. Reference book: Gordon, et al, *Dental Science and Dental Art*, \$9.50.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$8.50.

CROWN AND BRIDGE. Mimeographed notes furnished by the Department. Recommended but not required: Le Gro, *Ceramics in Dentistry*, \$7.50; Felcher, *Porcelain in Dentistry*, \$9.00.

DIAGNOSIS. Mimeographed material furnished by the Department.

HYGIENE. Fones, *Mouth Hygiene*, \$5.00; or Fones, *Preventive Dentistry*, \$2.75.

MEDICINE. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.00.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, Vols. II and III, \$4.50 each. Mimeographed notes are also furnished by the Department.

ORTHODONTICS. Recommended for collateral reading: Strang, *Textbook of Orthodontia*, \$10.00. Dewey and Anderson, *Practical Orthodontia*, (15th ed.), \$8.50; McCoy, *Applied Orthodontia* (4th ed.), \$4.50.

PATHOLOGY. Boyd, *Textbook of Pathology*, \$10.00; MacCallum, *Textbook of Pathology*, \$10.00.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Cushny, *Pharmacology and Therapeutics*, \$6.50; Sollmann, *Manual of Pharmacology*, \$7.50.

PHYSICAL PROPERTIES OF DENTAL MATERIALS. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

PROSTHETIC DENTISTRY. Recommended but not required: Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50; Turner, *American Textbook of Prosthetic Dentistry*, \$10.00.

PSYCHIATRY. Henderson and Gillespie, *Textbook on Psychiatry*, \$6.00; Hinsie, *Syllabus of Psychiatry*, \$2.50; Muncie, *Psychobiology and Psychopathology*, \$8.00; Noyes, *Modern Clinical Psychiatry*, \$5.00.

RADIOLOGY. Recommended but not required: Ennis, *Dental Roentgenology* (3d ed.), \$6.00; Holliday, *Dental Radiology Handbook*, \$2.00.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; De Costa, *General Surgery*, \$10.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Blair and Ivy, *Essentials of Oral Surgery*, \$6.50; Flag, *Art of Anesthesia*, \$5.00; Stout, *Human Cancer*, \$10.00.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50; Stedman, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

1939-1940

FOURTH YEAR—CLASS OF 1940

Alexander, Mortimer Aaron Brooklyn, N. Y.
A.B., New York University, 1937
Buckelew, Albert Rhoades South Orange, N. J.
A.B., Columbia, 1937
Carson, Richard Gregory Peekskill, N. Y.
B.S., Fordham, 1936
Clune, James Gerald, Jr. Ossining, N. Y.
A.B., Pennsylvania, 1936
Cohen, Leonard Staten Island, N. Y.
B.S., Wagner, 1937
Courtade, Gerard Louis New York City
A.B., Columbia, 1937
Del Rey, Silvio Anthony Brooklyn, N. Y.
B.S., New York University, 1935
Ehrenhaus, Jesse Brooklyn, N. Y.
B.S., College of the City of New York, 1936
Entelis, Lester New York City
A.B., New York University, 1937
Esposito, John Anthony New York City
B.S., Fordham, 1936
Feinstein, Irving New York City
B.S., Columbia, 1934
Feldman, Herbert Goodall New York City
B.S., New York University, 1936
Fliegel, Saul Lawrence New York City
A.B., New York University, 1936
Geraghty, Thomas Patrick Jackson Heights, N. Y.
A.B., New York University, 1937
Grauer, William Stone Great Neck, N. Y.
A.B., Johns Hopkins, 1936
Harrison, Arnold Wilson Long Island City, N. Y.
A.B., Transylvania, 1935
Kafka, Arthur Daniel Brooklyn, N. Y.
B.S., Columbia, 1935
Kanya, John Brooklyn, N. Y.
A.B., Columbia, 1936
Kupperman, Chester Sidney New York City
B.S., College of the City of New York, 1936
Leavitt, Joseph Marcus Brooklyn, N. Y.
B.S., Oklahoma, 1936
Lynch, Howard Paul Woodhaven, N. Y.
A.B., Fordham, 1936
Mandel, Isador Coleman Long Island City, N. Y.
A.B., New York University, 1935
Marchand, Gerard William New York City
A.B., Columbia, 1936
Martinek, Rudolph Frank Auburndale, N. Y.
A.B., New York University, 1935
Myers, Jesse Peekskill, N. Y.
A.B., Cornell, 1935
Nordstrom, Nils, Jr. Brooklyn, N. Y.
A.B., New York University, 1937
O'Connell, Raymond Alfred Flushing, N. Y.
William and Mary
Rabinow, Sidney Brooklyn, N. Y.
B.S., Brooklyn, 1933
Rankow, Robin Martin Brooklyn, N. Y.
B.S., College of the City of New York, 1935
Reiss, Robert New York City
B.S., College of the City of New York, 1936
Reznick, Irwin Brooklyn, N. Y.
A.B., New York University, 1934
Rosenbloom, Sidney New York City
A.B., New York University, 1939
Schulze, Raymond Frederick New York City
B.S., New York University, 1936

Sexauer, Paul Christian New York City
Ohio College of Dental Surgery
B.S., Long Island, 1938
Smith, Donald William Walton, N. Y.
A.B., Brown, 1935
Smith, Martin Irving Flushing, N. Y.
A.B., Columbia, 1937
Spatz, Irving Brooklyn, N. Y.
B.S., Brooklyn, 1935
Stang, Irwin Frederick Brooklyn, N. Y.
A.B., Brooklyn, 1936
Strickler, William Osler Brooklyn, N. Y.
B.S., Columbia, 1937
Sweeny, Thomas Francis Jackson Heights, N. Y.
B.S., Columbia, 1937
Thomas, Bernard O. A. Tenafly, N. J.
D.D.S., Minnesota, 1935
A.B., Minnesota, 1936
M.S., Minnesota, 1939
Weimann, Fred William Brooklyn, N. Y.
B.S., Columbia, 1937
Weinberger, Harold New York City
B.S., New York University, 1934
Weinrib, Morton Coleman New York City
A.B., New York University, 1937
Weiss, Alvin New York City
B.S., Mt. Union, 1938
Wetorgan, Joseph Brooklyn, N. Y.
Köln Medical School (Germany)
B.S., New York University, 1934
A.M., Columbia, 1935

THIRD YEAR—CLASS OF 1941

Axelroad, Saul Atlanta, Ga.
B.S., College of the City of New York, 1934
Beder, Oscar Edward Astoria, N. Y.
B.S., Rutgers, 1936
Columbia Medical School
Bergholz, Max Morton Brooklyn, N. Y.
B.S., College of the City of New York, 1935
A.M., Columbia, 1936
Berl, Jesse New York City
A.B., New York University, 1938
Berman, David Peter Hoboken, N. J.
A.B., Maryland, 1937
Breitner, Carl New York City
State Gymnasium (Vienna)
M.D., Vienna, 1925
Bromberg, Bertram Elias New York City
Long Island
Burt, Wesley Reppert Larchmont, N. Y.
A.B., Columbia, 1938
Capuzzo, Armand Rosario Brooklyn, N. Y.
College of the City of New York
Chayes, Charles MacKenzie New Rochelle, N. Y.
A.B., New York University, 1937
Collins, Edmund Martin New York City
A.B., Columbia, 1937
Dimond, Norman New York City
College of the City of New York
Dougherty, Lawrence Edward New York City
Fordham
Erdreich, Ulysses Brooklyn, N. Y.
B.S., Columbia, 1938
Feldman, Bernard Leonard Jackson Heights, N. Y.
B.S., New York University, 1934
De Lamar Inst. of Public Health

- Finkelstein, Selig Ossining, N. Y.
A.B., Cornell, 1937
- Jacobson, John New York City
Ph.G., Fordham, 1926
B.S., New York University, 1932
- Jagodzinski, Walter James Brooklyn, N. Y.
A.B., Columbia, 1938
- Jenkins, Palmer Holdeibry Yonkers, N. Y.
A.B., Colgate, 1935
- Kamen, Paul Brooklyn, N. Y.
A.B., New York University, 1937
- Kittay, Irving Brooklyn, N. Y.
College of the City of New York
- Klatskin, Bertram Brooklyn, N. Y.
A.B., Cornell, 1937
- Klatsky, Jack Seymour Brooklyn, N. Y.
B.S., College of the City of New York, 1938
- Knishkowsky, Emanuel Saul South Norwalk, Conn.
A.B., Yale, 1937
- Koenig, Leonard Eli New York City
A.B., Indiana, 1937
- Lambert, Harry Glen Cove, N. Y.
A.B., New York University, 1936
- Lane, Stanley Lawrence New York City
B.S., New York University, 1936
M.D., New York University, 1939
- Leff, Alexander New York City
College of the City of New York
- Levao, Raymond New York City
B.S., College of the City of New York, 1938
- Levene, Benjamin Fenton, Jr. New York City
A.B., Columbia, 1938
- Lipschutz, Morton New York City
A.B., New York University, 1938
- Loewenstein, Maurice Edward New York City
B.S., New York University, 1937
- Martin, George Henry, Jr. New York City
A.B., Columbia, 1938
- Melnick, Sidney Baltimore, Md.
A.B., Iowa, 1936
- Messing, Mortimer Brooklyn, N. Y.
Long Island
- Morris, Melvin Lewis New York City
B.S., College of the City of New York, 1934
A.M., Columbia, 1937
- Mund, Alvin New York City
B.S., College of the City of New York, 1936
- Naidorf, Irving Joseph Brooklyn, N. Y.
A.B., New York University, 1937
- Needham, John Joseph Brooklyn, N. Y.
A.B., Fordham, 1937
- Pritz, John Ernest Brooklyn, N. Y.
B.S., Long Island, 1937
- Rafkin, Irving David Brooklyn, N. Y.
Nebraska
- Rassi, Fred Kalil Brooklyn, N. Y.
A.B., Brooklyn, 1936
- Reichenstein, George Ludwig Jackson Heights, N. Y.
Imperial Royal Maximilian Gymnasium (Vienna)
M.D., Vienna, 1920
- Riley, Ross Joseph Kearny, N. J.
A.B., New York University, 1937
- Schrager, Arthur New York City
Columbia University Extension
- Silverstein, Philip Brooklyn, N. Y.
A.B., New York University, 1938
- Spengeman, Walter G. Pelham Manor, N. Y.
A.B., Columbia, 1938
- Thomas, Arthur Seymour, Jr. Brooklyn, N. Y.
A.B., Columbia, 1937
- Waldman, Morton Alexander New York City
B.S., College of the City of New York, 1939
- Weinberg, Irving George Sea Cliff, N. Y.
B.S., New York University, 1937
- Weisenthal, Albert Harold Nanuet, N. Y.
B.S., Columbia, 1934
A.M., Columbia, 1937
- Wolf, Raymond David Brooklyn, N. Y.
A.B., New York University, 1936

SECOND YEAR—CLASS OF 1942

- Barrer, Harry George Reading, Pa.
B.S., Albright, 1938
- Bellows, James William Saranac Lake, N. Y.
St. Lawrence
- Bermak, Marcus New York City
B.S., College of the City of New York, 1938
- Berman, William Brooklyn, N. Y.
New York University
- Blank, Harold Herbert Brooklyn, N. Y.
New York University
- Blumenfeld, Martin Brooklyn, N. Y.
A.B., Brooklyn, 1938
- Blumenson, Seymour New York City
A.B., New York University, 1936
- Blumenthal, Joseph New York City
A.B., New York University, 1938
- Cunti, Adeline Rheta Brooklyn, N. Y.
A.B., Brooklyn, 1938
- De Giovanni, Anthony Assuntus Brooklyn, N. Y.
A.B., Holy Cross, 1938
- De Rose, Joseph John Astoria, N. Y.
B.S., Manhattan, 1938
- Drucker, Louis New York City
B.S., Albright, 1937
- Eisenstein, David Brooklyn, N. Y.
B.S., New York University, 1938
- Farrell, Joseph Patrick Brooklyn, N. Y.
St. John's (N. Y.)
- Fisher, Louis Ogdensburg, N. Y.
Cornell
- Gerzog, Bertram Emanuel Brooklyn, N. Y.
A.B., Columbia, 1939
- Gibson, Joseph Arnet, Jr. Forest Hills, N. Y.
A.B., Columbia, 1939
- Glatter, Sidney New York City
A.B., New York University, 1937
- Greenfield, Samuel Far Rockaway, N. Y.
B.S., Dalhousie, 1938
- Gromet, Victor Hillel Brooklyn, N. Y.
- Gulli, Salvatore Philip Brooklyn, N. Y.
St. John's (N. Y.)
- Hagstrom, Albin Rand Brooklyn, N. Y.
B.S., Bates, 1938
- Halpern, Jacob New York City
B.S., College of the City of New York, 1937
- Hartman, Henry De Lacy New Rochelle, N. Y.
A.B., Fordham, 1937
Georgetown Medical School
- Helfand, George New York City
A.B., New York University, 1938
- Jarrett, Vincent Raymond Stamford, Conn.
B.S., Tufts, 1938
- Kelly, Robert Louis Brooklyn, N. Y.
B.S., Fordham, 1937
- Klaif, Jerome Leonard Brooklyn, N. Y.
A.B., New York University, 1938
- Luban, Joseph New York City
B.S., College of the City of New York, 1938
- Meany, John Joseph Ryan North Bergen, N. J.
A.B., Holy Cross, 1938
- Mooney, Alvin Jamaica, N. Y.
New York University
- Panoff, Mortimer Brooklyn, N. Y.
B.S., Maryland, 1937
- Pasternak, Richard Brooklyn, N. Y.
A.B., Johns Hopkins, 1938

Pearlman, Leonard Milton	Brooklyn, N. Y.	Gordon, Naomi Coyal (Mrs.)	New York City
A.B., North Carolina, 1938		Crane Junior College	
Rhodes, Doris M. (Mrs.)	New York City	Chicago	
Michigan		New York University	
New York University		Gottlieb, Eugene	New York City
Rosner, Norman Lawrence	New York City	A.B., Columbia, 1939	
A.B., New York University, 1938		Gottsegen, Robert	New York City
Ross, Joshua Felix	Brooklyn, N. Y.	A.B., Michigan, 1939	
B.S., College of the City of New York, 1937		Hall, Charles Mervin	Oakhurst, N. J.
Shoham, Joseph	New York City	New York University	
B.S., College of the City of New York, 1935		Hindels, George	New York City
Skarka, Anthony	Schenectady, N. Y.	Ver eins-Realgymnasium (Vienna)	
Union (N. Y.)		University of Vienna	
Tanz, Norman Pershing	New York City	Holocinski, Alfred Walter	Flushing, N. Y.
B.S., College of the City of New York, 1938		College of the City of New York	
Tolvin, Ira	Brooklyn, N. Y.	New York University	
A.B., New York University, 1937		Hopengarten, Sol	New York City
A.M., New York University, 1939		A.B., New York University, 1935	
Topolsky, Jack Murray	Brooklyn, N. Y.	Jaffe, Alfred	Newport, R. I.
A.B., Kansas, 1938		Rhode Island State College	
Weber, Robert Farer	New York City	Kaplan, Jacob Israel	Brooklyn, N. Y.
A.B., Columbia, 1938		A.B., New York University, 1938	
Weinreb, Julius	New York City	Karmiol, Mortimer	New York City
B.S., College of the City of New York, 1938		B.S., College of the City of New York, 1939	
Weinstein, Lawrence Abbott	Brooklyn, N. Y.	Karp, Alfred	Jersey City, N. J.
A.B., West Virginia, 1938		New York University	
Winter, Sidney Joseph	New York City	Last, Joseph J.	Brooklyn, N. Y.
B.S., Dalhousie, 1938		A.B., George Washington, 1935	
Wolf, Joseph	Lowell, Mass.	Lometti, Guido Mario	New York City
B.S., Boston, 1938		A.B., Fordham, 1939	
Zackheim, Lester Irving	New York City	McCue, Matthew Cornelius	Elizabeth, N. J.
A.B., Columbia, 1938		B.S., Fordham, 1939	
		McKeon, Charles James	New York City
		B.S., Manhattan, 1931	
		Mandracchia, Stephen Vito	Brooklyn, N. Y.
		College of the City of New York	
		St. John's (N. Y.)	
		Markowitz, Joseph Robert	New York City
		A.B., New York University, 1939	
		Mason, Newton Henry	Scarsdale, N. Y.
		B.S., Trinity (Conn.), 1939	
		Medaglia, Joseph Mario	New York City
		B.S., College of the City of New York, 1938	
		Menken, Norman	Jackson Heights, N. Y.
		New York University	
		Mozzer, Raymond Richard	Manchester, Conn.
		B.S., Fordham, 1939	
		Pratt, Frederick William, Jr.	Bronxville, N. Y.
		Hamilton	
		Fordham	
		Pro, Maynard James	Brooklyn, N. Y.
		A.B., New York University, 1939	
		Sarubbi, Joseph Felix	Yonkers, N. Y.
		B.S., Manhattan, 1939	
		Schept, Chester	Union City, N. J.
		A.B., Washington and Lee, 1938	
		Shesler, Laurence Frank	Yonkers, N. Y.
		Senior in Columbia	
		Smith, Alexander Bryant	Glen Cove, N. Y.
		St. John's (N. Y.)	
		Stern, John Paul	New York City
		A.B., Columbia, 1939	
		Tascher, Paul Joseph	Brooklyn, N. Y.
		New York University	
		Varteressian, Levon Antoine	Laurelton, N. Y.
		New York University	
		Vierno, Joseph Daniel	New York City
		A.B., Brooklyn, 1939	
		Vogel, Stanley William	New York City
		B.S., Columbia, 1939	
		Wagreich, Paul	New York City
		B.S., College of the City of New York, 1939	
		Wellward, Robert Russell	New York City
		B.S., New York University, 1939	

¹ Undergraduate students in Columbia University exercising professional option in the School of Dental and Oral Surgery.

Westover, Warren Osmer ¹ Senior in Columbia	Brooklyn, N. Y.	Renedo, Henry, Jr. D.D.S., Atlanta-Southern, 1938	Miami, Fla.
Wojtczak, Stanislaus Joseph	Maspeth, N. Y.	Smith, Eldridge Paul	Rockville Centre, N. Y.
St. John Kanty College		D.D.S., College of Dental and Oral Surgery	
Ohio State		of New York, 1918	
New York University		Stollmack, Herbert Edward	Brooklyn, N. Y.
Wolfram, Robert Sutter	Jamaica, N. Y.	D.D.S., New York University, 1936	
B.S., St. Peter's (N. J.), 1938		Tekulsky, Irwin Nelson	New York City
Long Island College of Medicine		D.D.S., New York University, 1932	
Yates, John Berchmans	Brooklyn, N. Y.	Van Natta, Clinton Beatty	Bayonne, N. J.
A.B., Holy Cross, 1939		D.D.S., Pennsylvania, 1935	
Yellin, Jacob Louis	New York City	Weiser, Albert	Orange, N. J.
A.B., Johns Hopkins, 1938		D.D.S., Pennsylvania, 1939	
Zulch, Frederick Raymond	White Plains, N. Y.	Whitman, Clifford LeRoys	West Englewood, N. J.
A.B., Brown, 1939		D.D.S., Maryland, 1927	
		Wiley, Albert	New York City
		D.D.S., Pennsylvania, 1928	

POSTGRADUATE STUDENTS

CANDIDATES FOR THE CERTIFICATE
OF PROFICIENCY*Oral Histology*

Yardeni, Jacob	Jerusalem, Palestine
Kieff Dental School (Russia)	

Oral Surgery

Jane Ferrer, Rafael	Barcelona, Spain
Instituto Nacional (Spain)	
Faculty of Medicine (Spain)	
Escuela de Odontologia of Madrid (Spain)	
Turner, John Alfred	Washington, D. C.
D.D.S., Howard, 1926	
B.S., Howard, 1938	

Orthodontics

Ackerman, Sam	Cleveland, Ohio
D.D.S., Ohio State, 1936	
Alexander, Robert H.	White Plains, N. Y.
A.B., College of the City of New York, 1929	
D.D.S., Columbia, 1933	
Colon, Louis Hilario	New York City
D.D.S., Pennsylvania, 1929	
Gato, Froilan Hidalgo	Havana, Cuba
D.D.S., Atlanta-Southern, 1938	
Jonas, Charles Saul	Atlantic City, N. J.
D.D.S., Maryland, 1938	
Katz, Solomon Leonard	New York City
D.D.S., Columbia, 1936	
Maislen, Irving Lawrence	Hartford, Conn.
D.D.S., Maryland, 1939	
Mendel, Anita Cora	Quebec, Canada
D.D.S., McGill, 1939	
Mindel, Leo Elias	New Brunswick, N. J.
D.M.D., Harvard, 1933	
Poles, Marius Louis	Clifton, N. J.
D.D.S., Atlanta-Southern, 1933	

SPECIAL STUDENTS

Clinical Practice

Bahler, Hans	Wabern, Switzerland
University of Berne	
Daniel, Sosthene Rudolph	Port au Prince, Haiti
Dental School of Haiti (Port au Prince)	
Garcia Arocha, Raul	Caracas, Venezuela
University of Venezuela	
D.D.S., Northwestern, 1939	
Hermida-Rodriguez, Graciela	Havana, Cuba
University of Havana	
Kasper, Stephen Thomas	Los Angeles, Calif.
Lieut. (j.g.), (DC) U.S.N.	
D.D.S., Southern California, 1928	
Nironen, Pekka	Helsinki, Finland
University of Helsinki	
Pos, Julius Simon	Leiden, Holland
D.M.D., Harvard, 1912	
Purcell, James Leo	Scranton, Pa.
Lieut. Comdr. (DC) U.S.N.	
D.D.S., Medical College of Virginia, 1924	
Schluger, Saul	Jersey City, N. J.
D.D.S., Louisville, 1931	
Zarchin, Jules	Paterson, N. J.
D.D.S., Temple, 1938	

SUMMARY

Fourth Year—Class of 1940	46
Third Year—Class of 1941	52
Second Year—Class of 1942	48
First Year—Class of 1943	57
Candidates for the certificate of proficiency	21
Special postgraduate students	10
Total	234

¹ Undergraduate students in Columbia University exercising professional option in the School of Dental and Oral Surgery.

CONDENSED ACADEMIC CALENDAR

For other dates refer to the complete Academic Calendar, which may be obtained from the Secretary of the University.

1940

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)

FOR THE WINTER SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee.

- September 16 Monday, to September 18, Wednesday. For undergraduate dental students.
- October 7 Monday, and October 8, Tuesday. For candidates for the certificate of proficiency.
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- September 19 Thursday. Classes begin for undergraduates.
- October 9 Wednesday. Classes begin for candidates for the certificate of proficiency.
- October 12 Saturday. Columbus Day. Not a University holiday.
- November 5 Tuesday. Election day. Holiday.
- November 28 Thursday. Thanksgiving. Holiday.
- December 2 Monday. Second Trimester begins, second year.
- December 5 Thursday. Second Trimester begins, third and fourth years.
- December 23 Monday to

1941

- January 5 Sunday, inclusive. Christmas holidays.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)

FOR THE SPRING SESSION

- January 14 Tuesday, to January 20, Monday. For undergraduate dental students.
- April 7 Monday, and April 8, Tuesday. For candidates for the certificate of proficiency.
-

- February 12 Wednesday. Alumni Day. Not a University holiday.
- February 22 Saturday. Washington's Birthday. Holiday.
- February 26 Wednesday. Third Trimester begins, second year.
- March 6 Thursday. Third Trimester begins, third and fourth years.
- April 9 Wednesday. Classes begin for candidates for the certificate of proficiency.
- April 10 Thursday, to April 12, Saturday, inclusive, Easter holidays.
- April 15 Tuesday. Last day for filing application or renewal of application for the degree of D.D.S. or for the certificate to be conferred in June. The privilege of later application may be granted on payment of a late fee.

1941

May	17	Saturday. Classes end, fourth year.
May	19	Monday. Final examinations begin, fourth year.
May	24	Saturday. Classes end, first, second, and third years.
May	26	Monday. Final examinations begin, first, second, and third years.
May	30	Friday. Memorial Day. Holiday.

COMMENCEMENT, JUNE 1 TO JUNE 3

June	1	Sunday. Baccalaureate Service.
June	3	Tuesday. Conferring of degrees.

1940								1941								1941							
JULY								JANUARY								JULY							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	1	2	3	4	5	6		...	...	...	1	2	3	4		...	...	1	2	3	4	5	
7	8	9	10	11	12	13		5	6	7	8	9	10	11		6	7	8	9	10	11	12	
14	15	16	17	18	19	20		12	13	14	15	16	17	18		13	14	15	16	17	18	19	
21	22	23	24	25	26	27		19	20	21	22	23	24	25		20	21	22	23	24	25	26	
28	29	30	31	...	...	...		26	27	28	29	30	31	...		27	28	29	30	31	...	...
AUGUST								FEBRUARY								AUGUST							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	...	...	...	1	2	3		...	...	...	...	...	...	1		...	...	...	...	...	1	2	
4	5	6	7	8	9	10		2	3	4	5	6	7	8		3	4	5	6	7	8	9	
11	12	13	14	15	16	17		9	10	11	12	13	14	15		10	11	12	13	14	15	16	
18	19	20	21	22	23	24		16	17	18	19	20	21	22		17	18	19	20	21	22	23	
25	26	27	28	29	30	31		23	24	25	26	27	28	...		24	25	26	27	28	29	30	
...	...	...	...	...	...	...		...	...	...	...	...	...	...		31	...	...	...	...	...	...
SEPTEMBER								MARCH								SEPTEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
1	2	3	4	5	6	7		...	...	...	...	...	...	1		...	1	2	3	4	5	6	
8	9	10	11	12	13	14		2	3	4	5	6	7	8		7	8	9	10	11	12	13	
15	16	17	18	19	20	21		9	10	11	12	13	14	15		14	15	16	17	18	19	20	
22	23	24	25	26	27	28		16	17	18	19	20	21	22		21	22	23	24	25	26	27	
29	30	...	...	...	...	...		23	24	25	26	27	28	29		28	29	30	...	...	...	...
...	...	...	...	...	...	...		30	31	...	...	...	...	...		...	...	...	...	...	...	...
OCTOBER								APRIL								OCTOBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	...	1	2	3	4	5		...	...	1	2	3	4	5		...	...	...	1	2	3	4	
6	7	8	9	10	11	12		6	7	8	9	10	11	12		5	6	7	8	9	10	11	
13	14	15	16	17	18	19		13	14	15	16	17	18	19		12	13	14	15	16	17	18	
20	21	22	23	24	25	26		20	21	22	23	24	25	26		19	20	21	22	23	24	25	
27	28	29	30	31	...	...		27	28	29	30	...	...	...		26	27	28	29	30	31	...	
NOVEMBER								MAY								NOVEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	...	...	...	...	1	2		...	...	...	...	1	2	3		...	...	...	...	...	...	1	
3	4	5	6	7	8	9		4	5	6	7	8	9	10		2	3	4	5	6	7	8	
10	11	12	13	14	15	16		11	12	13	14	15	16	17		9	10	11	12	13	14	15	
17	18	19	20	21	22	23		18	19	20	21	22	23	24		16	17	18	19	20	21	22	
24	25	26	27	28	29	30		25	26	27	28	29	30	31		23	24	25	26	27	28	29	
...	...	...	...	...	...	...		...	...	...	...	...	...	...		30	...	...	...	...	...	...
DECEMBER								JUNE								DECEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
1	2	3	4	5	6	7		1	2	3	4	5	6	7		...	1	2	3	4	5	6	
8	9	10	11	12	13	14		8	9	10	11	12	13	14		7	8	9	10	11	12	13	
15	16	17	18	19	20	21		15	16	17	18	19	20	21		14	15	16	17	18	19	20	
22	23	24	25	26	27	28		22	23	24	25	26	27	28		21	22	23	24	25	26	27	
29	30	31	...	...	...	...		29	30	...	...	...	...	...		28	29	30	31	...	...	...

Columbia University

BULLETIN OF INFORMATION

Jul 15 '42

Forty-first Series, No. 28

June 21, 1941

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1941-1942



630 WEST 168TH STREET
NEW YORK

Columbia University Bulletin of Information

Forty-first Series, No. 28

June 21, 1941

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1. Reports of the President and Treasurer to the Trustees.
2. The Catalogue Number, Directory Number, and the Announcements of the several Colleges, Schools, and Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C.U.P. 7,800—1941.

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street; telephone Wadsworth 3-2500.

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Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1941-1942



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

OFFICERS OF THE FACULTY

NICHOLAS MURRAY BUTLER, LL.D. (Cantab.), D.Litt. (Oxon.), Hon.D., (Paris)
President of the University
WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. *Dean*
HOUGHTON HOLLIDAY, A.B., D.D.S. *Associate Dean and Secretary of the Faculty*

FACULTY

HENRY U. BARBER, JR.	LEROY L. HARTMAN
ADOLPH BERGER	HOUGHTON HOLLIDAY
CHARLES F. BODECKER	EARLE BANKS HOYT
LESTER R. CAHN	ANNA V. HUGHES
HANS T. CLARKE	JAMES W. JOBLING
SAMUEL R. DETWILER	MAXWELL KARSHAN
MOSES DIAMOND	HAROLD J. LEONARD
HENRY S. DUNNING	CHARLES C. LIEB
WILLIAM B. DUNNING	EWING C. McBEATH
HENRY W. GILLET	WILLARD C. RAPPLEYE
MAGNUS I. GREGERSEN	LEUMAN M. WAUGH

DANIEL E. ZISKIN

OFFICERS OF INSTRUCTION

HAROLD ALEXANDER ABRAMSON *Assistant Professor of Physiology*
A.B., Columbia, 1920; M.D., 1923.

EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922. [Oral Anatomy]

HENRY ULYSSES BARBER, JR. *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1916. [Orthodontics]

HENRY ARTHUR BARTELS *Assistant Professor of Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927. [Oral Pathology]
Assistant Bacteriologist, Division of Laboratories and Research, State
Department of Health; Attending Dental Surgeon, Bryson Day Nursery.

ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon,
Presbyterian Hospital.

FRANK E. BEUBE *Assistant Professor of Dentistry*
L.D.S., D.D.S., Toronto, 1930. [Periodontology]
Assisting Attending Dental Surgeon, Presbyterian Hospital.

SAMUEL BIRENBACH *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Surgery]
Visiting Oral Surgeon, Morrisania Hospital; Associate Oral Surgeon,
Beth Israel Hospital; Attending Oral Surgeon, St. John's Hospital.

- CHARLES FRANCIS BODECKER *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Oral Histology]
- RICHARD M. BRICKNER *Assistant Professor of Clinical Neurology*
B.S., Columbia, 1921; M.D., 1923.
- LESTER RICHARD CAHN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Pathology]
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE S. CALLAWAY *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1923. [Orthodontics]
Attending Orthodontist, Fifth Avenue Hospital, Polyclinic Hospital.
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1913.
Consultant in Biological Chemistry, Presbyterian Hospital.
- ³KENNETH STEWART COLE *Associate Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S., 1931.
Consultant in Anatomy, Presbyterian Hospital.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914. [Oral Anatomy]
Consultant in Dentistry, Hawthorne Institute.
- ALPHONSE RAYMOND DOCHEZ *John E. Borne Professor of Medical and*
A.B., Johns Hopkins, 1903; Sc.D., New York University, 1925; *Surgical Research*
Yale, 1926; Western Reserve, 1931.
- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; [Oral Surgery]
B.S., New York University, 1915.
Attending Oral Surgeon, Manhattan Eye, Ear, and Throat, Presbyterian, Sloane, and Babies Hospitals, and Vanderbilt Clinic; Consulting Oral Surgeon, Knickerbocker, Nassau, New York Foundling, Roosevelt, St. Vincent's, St. Luke's, Mary Immaculate, Jamaica, Norwalk, State Reconstruction, West Haverstraw, Greenwich, Stamford, United Port Chester, North Hudson, Meadowbrook, and Hackensack General Hospitals, Hospital for Ruptured and Crippled, National Hospital for Speech Disorders, and Vassar Brothers Hospital, Poughkeepsie.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895. [Periodontology]
Director of the Department of Dentistry, New York Orthopaedic Dispensary and Hospital.
- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.
- ²EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- HENRY WEBSTER GILLET *Professor of Dentistry*
D.M.D., Harvard, 1885. [Prosthetics]
- MAGNUS INGSTRUP GREGERSEN *Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- LEROY LEO HARTMAN *Professor of Dentistry*
D.D.S., Northwestern, 1913; Sc.D., 1936. [Operative]
Attending Dental Surgeon, Presbyterian Hospital.

² On leave Winter Session.³ On leave Spring Session.

- MILO HELLMAN *Professor of Dentistry*
[*Orthodontic Research*]
D.D.S., Pennsylvania, 1905; Sc.D., 1933; Sc.D., Witwatersrand, 1938.
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902. [Periodontology]
Chief, Periodontia Department, Beth Israel Hospital; Attending Dental
Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint
Diseases.
- HOUGHTON HOLLIDAY *Associate Dean and Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917. [Radiology]
Attending Dental Surgeon, Presbyterian Hospital.
- JOSEPH HENRY HOLMES *Assistant Professor of Physiology*
A.B., Amherst, 1930; M.D., Western Reserve, 1934.
- EARLE BANKS HOYT *Professor of Dentistry*
D.D.S., Pennsylvania, 1918. [Prosthetics]
- ANNA VERONICA HUGHES *Professor of Dentistry*
D.M.D., Tufts, 1909. [Courses for Dental Hygienists]
Director of Courses for Dental Hygienists.
- JAMES WESLEY JOBLING *Delafield Professor of Pathology*
M.D., Tennessee Medical, 1897.
Director and Attending Pathologist, Presbyterian Hospital; Consulting Pathologist, Sloane
Hospital.
- CLAUS W. JUNGEBLUT *Professor of Bacteriology*
M.D., Berne, 1921.
- MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- BARRY GRIFFITH KING *Assistant Professor of Physiology*
A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.
- WILLIAM LEFKOWITZ *Assistant Professor of Dentistry*
D.D.S., Columbia, 1924. [Oral Histology]
- HAROLD JUDSON LEONARD *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915. [Periodontology]
Attending Dental Surgeon, Presbyterian Hospital.
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914.
Director, Psychiatric Institute and Hospital; Director and Attending Psychiatrist, Vanderbilt
Clinic; Consultant in Psychiatry, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906.
Consultant in Pharmacology, Mount Sinai Hospital.
- GEORGE FRANK LINDIG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924. [Operative]
- JOSEPHINE EMILY LUHAN *Assistant Professor of Dentistry*
D.D.S., New York College of Dental and [Courses for Dental Hygienists]
Oral Surgery, 1912.
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921. [Dentistry for Children]
- FRANCIS STEPHEN McCAFFREY *Associate Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon,
Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Consulting Oral Surgeon,
Manhattan State Hospital, and St. Joseph's Hospital, Yonkers, N. Y.

- MORELL DION MCKENZIE *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1917. [Prosthetics]
- DONALD JOHN W. McLAUGHLIN *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1926. [Prosthetics]
- LOIS COFFEY MOSSMAN *Associate Professor of Education*
B.S., Columbia, 1914; A.M., 1920; Ph.D., 1924. (Teachers College)
- EDWARD GERALD MURPHY *Assistant Professor of Dentistry*
D.D.S., Michigan, 1924. [Orthodontics]
- JOHN LESTER NICKERSON *Assistant Professor of Physiology*
B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1934.
- CARL REUBEN OMAN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1914. [Operative]
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914. [Oral Surgery]
Attending Oral Surgeon, City Hospital; Assistant Attending Oral Surgeon, Babies Hospital and Vanderbilt Clinic; Consultant in Oral Surgery, Swedish, Vassar, U. S. Veterans', and Grasslands Hospitals; Consulting Oral Surgeon, Yonkers General Hospital and Lawrence Hospital, Bronxville.
- *FRANK HENRY PIKE *Associate Professor of Physiology*
A.B., Indiana, 1903; Ph.D., Chicago, 1907.
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
D.D.S., Marion Sims Dental College, 1903. [Prosthetics]
Assisting Attending Dental Surgeon, Presbyterian Hospital.
- WILLARD COLE RAPPLEYE *Dean and Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922; Sc.D., Trinity (Conn.), 1939.
Dean, College of Physicians and Surgeons; Director, New York Post-Graduate Medical School.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Associate Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1929; [Dentistry for Children]
D.D.S., Columbia, 1930.
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
D.D.S., 1922.
Associate Dentist, Mount Sinai Hospital; Attending Oral Surgeon, Jewish Memorial Hospital; Associate Attending Dental Surgeon, Presbyterian Hospital.
- *ERNEST LYMAN SCOTT *Associate Professor of Physiology*
B.S., Ohio Wesleyan, 1902; M.S., Chicago, 1911; Ph.D., Columbia, 1914.
- AURA EDWARD SEVERINGHAUS *Associate Professor of Anatomy*
B.S., Columbia, 1916; A.M., 1920; Ph.D., 1929.
- HARRY H. SHAPIRO *Assistant Professor of Anatomy*
D.M.D., Tufts, 1918.
- GEORGE K. SMELSER *Assistant Professor of Anatomy*
A.B., Earlham, 1929; Ph.D., Chicago, 1932.
- HANS SMETANA *Assistant Professor of Pathology*
M.D., Vienna, 1922.
Assistant Attending Pathologist, Presbyterian Hospital.

* On leave Spring Session.

* On leave from July 1, 1941, to December 31, 1941.

- GILBERT PERCIVAL SMITH *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH *Professor of Anatomy*
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
Associate Consultant in Anatomy, Presbyterian Hospital.
- LEWIS RIDDELL STOWE *Associate Professor of Dentistry*
D.D.S., Minnesota, 1916. [Dentistry for Children]
Associate Attending Dental Surgeon, Presbyterian and
Babies Hospitals; Consultant in Dental and Oral Surgery, Neurological Institute.
- ARTHUR CRANSTON TOTTEN *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1926. [Orthodontics]
- LEUMAN MAURICE WAUGH *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Orthodontics]
Consultant in Orthodontics, New York Infirmary for Women and Children.
- HORATIO BURT WILLIAMS *Dalton Professor of Physiology*
A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
- HARRY ALLEN YOUNG *Assistant Professor of Dentistry*
D.D.S., Indiana, 1919. [Prosthetics]
- DANIEL E. ZISKIN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1917. [Diagnosis]
Associate Attending Dental Surgeon, Presbyterian Hospital.
-
- HOWARD T. APPLGATE, D.D.S. *Assistant in Dentistry*
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]
- HERBERT DELBERT AYERS, JR., A.B., D.D.S. *Instructor in Dentistry*
Assistant Visiting Oral Surgeon, Queens General Hospital. [Dental Materials]
- WILLIAM WELLS BAADÉ, D.D.S. *Assistant in Dentistry*
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]
- CARLISLE C. BASTIAN, D.D.S. *Special Lecturer in Dentistry*
[Prosthetics]
- WALTER REGINALD BEAVEN, D.D.S. *Instructor in Pharmacology*
- EDWARD BECKER, D.M.D. *Assistant in Dentistry*
[Oral Surgery]
- RICHARD J. BING, B.S., M.D. *Instructor in Physiology*
- FREDERICK BIRNBERG, D.D.S. *Special Lecturer in Dentistry*
[Theory and Practice]
- NORMAN WINGATE BOYD, B.S., D.D.S. *Assistant in Dentistry*
[Prosthetics]
- RICHARD GREGORY CARSON, B.S., D.D.S. *Assistant in Dentistry*
[Operative]
- KENNETH FULTON CHASE, D.M.D. *Instructor in Dentistry*
Consulting Dental Surgeon, New York Eye and Ear Infirmary; [Oral Surgery]
Clinical Assistant, Roosevelt Hospital.
- ADA R. CLARK, Ph.D. *Instructor in Bacteriology*
- J. FRANCES COBBAN, R.N. *Special Lecturer in Dentistry*
[Courses for Dental Hygienists]
- GERARD LOUIS COURTADE, A.B., D.D.S. *Assistant in Dentistry*
[Prosthetics]

JAMES GROWNEY CUNNINGHAM, B.S., D.D.S.	<i>Assistant in Dentistry</i> [Diagnosis]
JOSEPH ANTHONY CUTTITA, M.S., D.D.S.	<i>Assistant in Dentistry</i> [Diagnosis]
³ ROBERT CYRIL DEVINE, B.S., D.D.S.	<i>Instructor in Dentistry</i> Resident Dentist, New York State Psychiatric Institute and Hospital. [Oral Surgery]
SOLOMON DISICK, B.S., M.D.	<i>Instructor in Pharmacology</i>
FREDERICK SCHULKEN DOSCHER, B.S., D.D.S.	<i>Assistant in Dentistry</i> [Oral Surgery]
JACOB ERDREICH, D.M.D.	<i>Assistant in Dentistry</i> [Oral Anatomy]
GENEVIEVE FOLEY, A.M.	<i>Assistant in Bacteriology</i>
MARIO A. FRANZONE, D.D.S.	<i>Assistant in Dentistry</i> [Oral Surgery]
HERBERT PHILIP FRITZ, B.S., D.D.S.	<i>Instructor in Dentistry</i> [Operative]
HARRY ALLEN GALTON, D.D.S.	<i>Instructor in Dentistry</i> [Orthodontics]
BENJAMIN WILLIAM GLICK, A.M., M.D.	<i>Instructor in Anatomy</i> Adjunct Surgeon, City Hospital, Clinical Assistant in Surgery, Mount Sinai Hospital.
ISIDORE HARRY GOLDBERGER, M.D.	<i>Special Lecturer in Dentistry</i> [Courses for Dental Hygienists]
Assistant Clinical Professor of Pediatrics, New York University and Bellevue Hospital Medical College; Assistant Director of Health Education, Board of Education, New York City; Attending Pediatricist, Willard Parker Hospital; Associate Attending Pediatricist, Home for Hebrew Infants; Consulting Pediatricist, Morrisania General Hospital.	
EDWARD A. GRABER, M.D.	<i>Assistant in Pathology</i>
IRVING R. HARDY, D.M.D.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
MAURICE JOHN HICKEY, D.M.D., M.D.	<i>Instructor in Surgery</i> Assistant Resident in Plastic Surgery, Presbyterian Hospital.
ROBERT HENRY HOFFMAN, D.D.S.	<i>Assistant in Dentistry</i> [Oral Anatomy]
KATHERINE FLORENCE HOLLIS	<i>Instructor in Dentistry</i> [Courses for Dental Hygienists]
MELVILLE HUMBERT, A.B., B.S., D.D.S.	<i>Instructor in Pharmacology</i>
IRVIN LELAND HUNT, JR., D.D.S.	<i>Instructor in Dentistry</i> [Operative]
LEWIS EDWARD JACKSON, D.D.S.	<i>Instructor in Dentistry</i> [Orthodontics]
HENRY JUNEMANN, A.B., D.D.S.	<i>Instructor in Dentistry</i> [Prosthetics]

³ On leave Spring Session 1940-1941 and during 1941-1942 for military service.

EDWARD HENRY KOCH, JR., A.B., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
BENNETT M. LATHROP, B.S., D.D.S.	<i>Assistant in Dentistry</i> [Dentistry for Children]
JULIUS K. LITTMAN, M.D.	<i>Instructor in Anatomy</i> Assistant Adjunct in Surgery, Bronx Hospital.
L. VOSBURGH LYONS, M.D.	<i>Associate in Neurology</i> Attending Neurologist, Neurological Institute, City Hospital, and Vanderbilt Clinic; Consulting Neurologist, Englewood Hospital and State School for Boys, Warwick, N. Y.
JOSEPH L. MCSWEENEY, D.D.S.	<i>Assistant in Dentistry</i> [Oral Surgery] Visiting Dental Surgeon, St. Vincent's Hospital.
EMANUEL A. MANGINELLI, M.D.	<i>Instructor in Neurology</i>
ROBERT IRVING MASON, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
ARTHUR H. MERRITT, D.D.S., D.Sc.	<i>Special Lecturer in Dentistry</i> [Periodontology]
HENRY MILCH, A.B., M.D.	<i>Instructor in Anatomy</i> Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct Surgeon, Riverside Hospital.
MILTON ROBERT MILLER, B.S., D.D.S.	<i>Instructor in Dentistry</i> [Operative] Attending Dental Surgeon, Unity Hospital.
RUTH A. MILLER, Ph.D.	<i>Instructor in Anatomy</i>
WILLIAM MILLER, B.S., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
HARRY NEIVERT, M.D.	<i>Instructor in Otolaryngology</i>
FERDINAND G. NEUROHR, D.D.S.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
ROBERT W. NORTHROP, D.D.S.	<i>Instructor in Dentistry</i> [Oral Surgery]
NATHANIEL A. OLINGER, B.S., D.D.S., D.Sc.	<i>Assistant in Dentistry</i> [Prosthetics]
ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S. . . .	<i>Special Lecturer in Dentistry</i> [Orthodontics]
ENID TRIBE OPPENHEIMER, B.Sc.	<i>Instructor in Physiology</i>
ELIZABETH E. PAINTER, Ph.D.	<i>Instructor in Physiology</i>
DAVID POTTER, A.M.	<i>Instructor in Teaching of Speech</i> [Teachers College]
MARJORIE A. ROLOFF, B.S.	<i>Assistant in Biochemistry</i>
BENJAMIN SALZER, M.D.	<i>Instructor in Neurology</i>
LOUIS SCHORR, D.D.S.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
ALBIN ROBERT SEIDEL, D.M.D.	<i>Instructor in Dentistry</i> [Oral Surgery] Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital.

ELI H. SIEGEL, B.S., D.D.S.	<i>Assistant in Biochemistry</i>
CLIFFORD L. SPINGARN, A.B., M.D.	<i>Instructor in Pharmacology</i>
EDITH E. SPROUL, M.D.	<i>Associate in Pathology</i>
ELIAS L. STERN, B.S., M.D.	<i>Instructor in Anatomy</i>
Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.	
FERDINAND A. STEWART, JR., A.B., D.D.S.	<i>Instructor in Dentistry</i> [Oral Surgery]
BARBARA B. STIMSON, A.B., M.D., Med.Sc.D.	<i>Associate in Surgery</i>
SIDNEY H. STONE, B.S., D.D.S.	<i>Assistant in Pathology</i>
HARRY STRUSSER, D.D.S.	<i>Special Lecturer in Dentistry</i>
Chief of Dental Division, Department of Health, New York City. [Theory and Practice]	
BERNERD OWEN AMOS THOMAS, M.S., D.D.S.	<i>Instructor in Dentistry</i> [Oral Histology]
RAYMOND C. TRUEX, Ph.D.	<i>Instructor in Anatomy</i>
WILLIAM ANTHONY VERLIN, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Dentistry for Children]
GENEVA HASTINGS WALLS	<i>Instructor in Dentistry</i> [Courses for Dental Hygienists]
DONALD BYERS WAUGH, D.D.S.	<i>Instructor in Dentistry</i> [Orthodontics]
GLENN H. WHITSON, D.D.S.	<i>Assistant in Dentistry</i> [Orthodontics]
HAROLD C. WIGGERS, Ph.D.	<i>Instructor in Physiology</i>
WILLIAM CARL WOHLFARTH, JR., Ph.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]
HAROLD S. WOODRUFF, D.D.S.	<i>Instructor in Dentistry</i> [Prosthetics]
EDWARD VICTOR ZEGARELLI, A.B., D.D.S.	<i>Instructor in Dentistry</i> [Diagnosis]
HAROLD JACOB ZERR, A.B., D.D.S.	<i>Instructor in Dentistry</i> [Prosthetics]

CLINICAL ASSISTANTS

RALPH BECKER, B.S., D.D.S.	GUSTAVE REICH, D.D.S.
HARRY DARROW, D.D.S.	ESSE ROSE, D.D.S.
JOHN J. DOLCE, B.S., D.D.S.	FREDERICK ROTHENBERG, D.D.S.
SAMUEL R. DRELLICH, D.D.S.	WILLIAM JOSEPH SAVOY, B.S., D.D.S.
JOSEPH R. HORN, D.D.S.	HERBERT F. SILVERS, B.S., D.D.S.
MORRIS KAVELLE, B.S., D.D.S.	HERBERT STOLLMACK, D.D.S.
JESSE L. LFCOURT, B.S., D.D.S.	BENJAMIN TENENBAUM, B.S., D.D.S.
THEODORE R. PARKER, A.B., D.M.D.	LESTER A. WOLFSON, D.D.S.
WILBUR PREZZANO, B.S., D.D.S.	DAVID ZEISLER, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

ALBIN R. SEIDEL, D.M.D., *Director*

Attending Dental Surgeons

ADOLPH BERGER, D.D.S.	HAROLD J. LEONARD, A.B., D.D.S.
LEROY L. HARTMAN, D.D.S., Sc.D.	FRANCIS S. McCAFFREY, B.S., D.D.S.
ISADOR HIRSCHFELD, D.D.S.	ALBIN R. SEIDEL, D.M.D.
HOUGHTON HOLLIDAY, A.B., D.D.S.	

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	LEWIS R. STOWE, D.D.S.
JOSEPH SCHROFF, B.S., M.D., D.D.S.	DANIEL E. ZISKIN, D.D.S.

Assisting Attending Dental Surgeons

HOWARD T. APPLGATE, D.D.S.	FRANK E. BEUBE, L.D.S., D.D.S.
WILLIAM W. BAADÉ, D.D.S.	JOHN F. RALSTON, D.D.S.

Interns

CHARLES RAYMOND LESCH, D.M.D.	JOSEPH FRANCIS TOMASELLI, D.D.S.
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PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S., *Attending Oral Surgeon*

COMMITTEES

Administration

Dean RAPPEYE, *Chairman*, Professors BODECKER, H. S. DUNNING, HARTMAN, HOLLIDAY, HOYT, LEONARD, and WAUGH

Curriculum

Professor HOLLIDAY, *Chairman*, Professors BERGER, CAHN, HARTMAN, HOYT, LEONARD, and LIEB

Library

Professor HOLLIDAY, *School of Dental and Oral Surgery Representative*

Extension and Graduate Courses

Professor WAUGH, *Chairman*, Professors BERGER and McBEATH

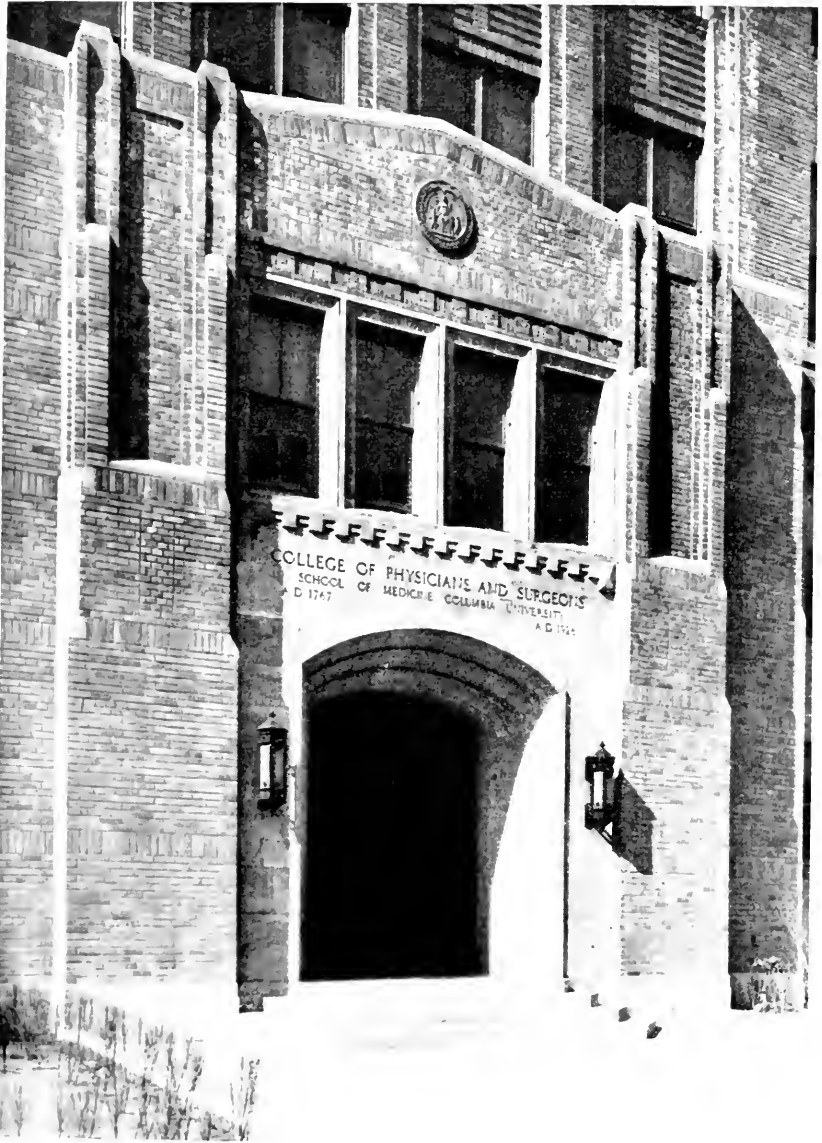
Research

Professor BODECKER, *Chairman*, Professors CAHN, KARSHAN, McBEATH, and H. SHAPIRO

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Provost of the University</i>
PHILIP M. HAYDEN, A.M.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Director of University Admissions</i>
BERNARD P. IRELAND, A.M.	<i>Assistant Director of University Admissions</i>
JOSEPH M. MURPHY, A.M.	<i>Assistant Director of University Admissions</i>
CHARLES C. WILLIAMSON, Ph.D., Litt.D.	<i>Director of Libraries</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Director of Buildings and Grounds</i>
³ REV. RAYMOND C. KNOX, S.T.D.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
THOMAS A. MCGOEY, M.S.	<i>Director of University Residence Halls</i>
ARTHUR E. MATZKE, A.B., B.S., C.E.	<i>Head of Men's Residence Halls</i>
KATHARINE CAMPBELL REILEY, Ph.D.	<i>Adviser to Women Graduate Students and Head of Johnson Hall</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.M.	<i>Alumni Secretary</i>
THOMAS P. FLEMING, M.S.	<i>Medical Librarian</i>

³ On leave Spring Session.



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE SCHOOL
OF DENTAL AND ORAL SURGERY

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission, and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course in dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments with students of the College of Physicians and Surgeons.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year (see Academic Calendar).

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school or faculty concerned may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 100,000 volumes and about 10,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. It has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,100 current journals, and near by are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks.

A series of lectures and seminars on the history of medicine is arranged by the Library Committee during the school year.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The Libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The

student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation. The University Medical Officer, Dr. W. H. McCastline, has supervision of all matters affecting the health of the student body.

RESIDENCE HALLS

The University maintains on the Campus at 116th Street or immediately adjacent thereto Residence Halls for men and women, information about which will be furnished on request by the Secretary of the University, 213 Low Memorial Library. The office of the Director of University Residence Halls is 125 Livingston Hall.

OFF-CAMPUS ACCOMMODATIONS

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the Registry of Off-Campus Accommodations in Alumni House.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on B floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services, with substantial savings to Columbia students.

"NEVIS"

"Nevis," an estate of approximately sixty-eight acres, the gift of Mrs. T. Coleman du Pont, of Wilmington, Delaware, is located at Irvington-on-Hudson, about sixteen miles north of New York City. Classes in landscape architecture and general horticulture meet at "Nevis," and special lectures are arranged from time to time. The Institute of Horticulture, under the auspices of the University, is conducted at "Nevis" in the summer, in the Hamilton Arboretum and Gardens.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$1.25 in cloth and \$.50 in paper. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION, AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application in the Winter Session of the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. How-

ever, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is successful completion of three full years at an acceptable college of arts and sciences, which must include successful completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary, but so difficult to attain in later years.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and

will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

SUMMER SESSION

No regular courses will be offered during the Summer Session of 1941. Those who have successfully completed all the requirements of the third or fourth years may elect work in clinical practice, without credit, from June 9 to July 18, 1941, subject to the approval of the departments concerned. Students having deficiencies in technical or clinical courses must register for those courses by June 9, 1941. Fees will be charged on the basis of \$10 per trimester credit.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. During the year 1940-1941 short refresher courses were offered in oral diagnosis, orthodontics, and periodontia. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate

and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country, and membership in good standing in the applicant's national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized fourteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. The course is open to graduate dentists who have completed satisfactory courses in the fundamental sciences and who hold a Bachelor of Science or Bachelor of Arts degree. For information regarding course content, registration,

and fees apply to the DeLamar Institute of Public Health, 600 West 168th Street, New York City.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$6.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed for dental students:

(a) University Fee

- | | |
|--|---------|
| 1. For each Winter or Spring Session or any part thereof | \$10.00 |
| 2. For each Summer Session or any part thereof | 7.00 |

(b) Tuition Fee

- | | |
|---|--------|
| 1. For the course in dentistry for a Winter or Spring Session in the case of a student enrolled for the full course | 250.00 |
| For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes. | |

(c) Fee for Application

- | | |
|--------------------------------|-------|
| 1. For a degree | 20.00 |
| 2. For a certificate | 10.00 |

(d) Privileges

- | | |
|--|------|
| 1. Late registration or late application for a degree or certificate | 6.00 |
| 2. Deficiency or special examinations | 3.00 |
| 3. Late application for deficiency or special examinations | 3.00 |
| 4. Renewal of application for any degree or certificate | 1.00 |

(e) Student Activities

- | | |
|---|------|
| 1. For all students, Columbia <i>Dental Review</i> | 1.50 |
| 2. For sophomores, juniors, and seniors, junior membership in the American Dental Association | 3.00 |
| 3. Student activities | .50 |

(f) Case Rental

For sophomores, juniors, and seniors, rental of one instrument case . . . \$5.00

(g) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the second Saturday of the Winter Session or after the first Saturday of the Spring Session, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.
When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(h) Deposit 20.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the following Winter Session, it will not be returned. If he registers at the School in the following September, the amount of the acceptance fee will be deducted from his tuition fees for the Winter Session.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp.

Lockers. Each student will be assigned a locker on entering and will be required to supply himself with one combination lock as prescribed by the School. Locks are \$1.00 each.

ESTIMATED EXPENSES FOR THE ACADEMIC YEAR

Following is an itemized estimate of the average expenses of a full-time student in the School of Dental and Oral Surgery for the academic year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year and can be accepted as applicable for the year 1941-1942 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$553	\$548
Room	200	170
Board	300	250
Books	60	30
Instruments (see below)	160	160
Laundry	40	28
	<hr/>	<hr/>
	\$1,313	\$1,186

The approximate cost of instruments for the four-year course is as follows: first year, \$30; second year, \$385; third year, \$150; fourth year, \$25. In addition, the microscope required at the beginning of the course will cost between \$60 and \$157. The cost of books will vary, depending upon the choice made from the selection offered. Instruments are to be paid for at the opening of the school year.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class Faculty under which he has studied during the preceding year.

2. The Faculty of the School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
 - a) Unconditionally
 - b) Conditionally
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under Paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, re-examination required.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examinations or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Glover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award, the income from \$1,000, is to be given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

The E. D. Newman award is made annually by the Alpha Omega Fraternity to the member of the graduating class who has received the highest scholastic average for the entire professional course.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual certificate award for proficiency in dentistry for children has been established by the *Dental Columbian* of the Class of 1939.

OMICRON KAPPA UPSILON

Epsilon Epsilon Chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 percent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to sophomores, juniors, and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF
DENTAL AND ORAL SURGERY

OFFICERS

President, JOHN J. MAYERS, D.D.S.

Vice-President, THEODOR O. PETERSON, D.D.S.

Secretary, NATHAN SHECKMAN, B.S., D.D.S.

Treasurer, FRANK J. McLAREN, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to the Board of Governors of Columbia Alumni Federation, DRS.
JAMES M. DUNNING, MANUEL M. MASLANSKY, and HERMAN N. SHECKMAN

Any graduate, former student, Faculty member, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

<i>Subject</i>	<i>Trimester Credits</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FRESHMAN YEAR:				
Anatomy				
Embryology	2	25		25
Gross	15	60	253	313
Microscopic	8	37	111	148
Neuro	4	20	40	60
Oral	6	19	75	94
Biochemistry	8	36	108	144
Histology, oral	2		61	61
Physiology	10	56	148	204
	<u>55</u>			<u>1,049</u>
SOPHOMORE YEAR:				
Bacteriology	7	42	93	135
Crown and bridge	4	12	90	102
Dental materials	2		55	55
Oral hygiene	2	22		22
Operative dentistry	10	21	223	244
Pathology	9	51	130	181
Pharmacology	6	44	66	110
Prophylaxis	1		25	25
Prosthetic dentistry	11	20	233	253
Psychopathology	1	10		10
Radiology	1	10		10
Surgery, oral	2	24		24
	<u>56</u>			<u>1,171</u>
JUNIOR YEAR:				
Anatomy, applied	1	11		11
Bacteriology	1	11		11
Crown and bridge				
Technic	6	11	102	113
Porcelain	2		55	55
Round wire	1		27	27
Diagnosis, dental	4	33	27	60
Operative dentistry	11	11	338	349
Orthodontics	5	21	82	103
Pathology, oral	5	33	44	77
Periodontology	1		25	25
Prosthetic dentistry	7	22	156	178
Public health	1	11		11
Radiology	1		27	27
Surgery, oral	2	11	27	38
Theory and practice	1	11		11
	<u>49</u>			<u>1,096</u>
SENIOR YEAR:				
Crown and bridge	8	11	192	203
Dentistry for children	4	11	82	93
Diagnosis, dental	1		27	27
Operative dentistry	15	22	358	380
Periodontology	3	22	25	47
Pharmacology, applied	1	11		11
Practice of medicine	7	66	27	93
Prosthetic dentistry	7	11	165	176
Surgery, oral	3	77	27	104
Theory and practice	2	22		22
	<u>51</u>			<u>1,156</u>

COURSES OF INSTRUCTION

For purposes of instruction the work of each year is scheduled in three trimesters, which are designated as First, Second, and Third. The unit of credit used is the trimester credit, which signifies approximately three academic hours of work a week for one trimester. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth years.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Courses enclosed in brackets are not given in 1941-1942.

Each senior is required to present a thesis representing original reading, scientific research, or both. This shall be completed under the immediate supervision of Associate Dean HOLLIDAY and with the help of an adviser in the field selected.

Members of the fourth year class will also be required to take a comprehensive examination, which will be given near the end of the academic year, and the results will be considered as one of the indications of the fitness of the candidates for graduation.

ANATOMY

Anatomy 101—Oral anatomy. First year. 6 trimester credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the growth and development of the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. First year. 2 trimester credits. Professors BODECKER and LEFKOWITZ and Dr. THOMAS.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. First year. 8 trimester credits. Professors P. E. SMITH, COPENHAVER, ENGLE, SEVERINGHAUS, and assistants.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. First year. 15 trimester credits. Professors ROGERS and SHAPIRO and assistants.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. 2 trimester credits. First year. Professors DETWILER, COPENHAVER, ROGERS, and SMELSER and Dr. TRUEN.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. First year. 4 trimester credits. Professors ELWYN and BRICKNER, Drs. SALZER, LYONS, and MANGINELLI.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Third year. 1 trimester credit. Professors ROGERS and SHAPIRO.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. First Trimester, second year. 4 trimester credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. First Trimester, second year. 3 trimester credits. Professors DOCHEZ, JUNGBLUT, and ROSEBURY and staff.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

Bacteriology 253—Bacteriology and etiology of dental disease. One hour a week Third Trimester, third year. 1 trimester credit. Professor ROSEBURY.

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. 8 trimester credits. Professor KARSHAN and assistants.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Second year. 4 trimester credits. Professors HOYT and McLAUGHLIN, Drs. WOHLFARTH and ZERR.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Third year. 6 trimester credits. Professors HOYT and McLAUGHLIN, Drs. WOHLFARTH and ZERR.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 207—Porcelain technic. Third year. 2 trimester credits. Professor McLAUGHLIN and Dr. ZERR.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Third year. 1 trimester credit. Professor GILLETT and Dr. ZERR.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. Fourth year. 1 trimester credit. Professor HOYT.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Fourth year. 7 trimester credits. Professors HOYT, GILLETT, G. P. SMITH, McLAUGHLIN, Drs. BOYD, WOODRUFF, and JUNEMANN.

Clinical construction of crown and bridgework.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Second year. 2 trimester credits. Dr. AYERS.

Metallurgical processes and apparatus and physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory.

DENTISTRY FOR CHILDREN

Dentistry for Children 202—Dentistry for children lectures and clinic. Fourth year. 4 trimester credits. Professors McBEATH, STOWE, and ROSENSTEIN.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Third year. 4 trimester credits. Professor ZISKIN and clinical staff.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal dys-harmonies.

Diagnosis 213—Dental diagnosis clinic. Fourth year. 1 trimester credit. Professors ZISKIN, STOWE, and ROSENSTEIN and the clinical staff.

Continuation of clinic of *Diagnosis 212*.

HYGIENE AND PROPHYLAXIS

Hygiene 121—Hygiene and prophylaxis. Second year. 1 trimester credit. Professors HUGHES and LUHAN and assistants.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

MEDICINE

Medicine 278—General survey of medicine. Fourth year. 7 trimester credits. Professor McBEATH and associates.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Operative dentistry technic. Second year. 8 trimester credits. Professors HARTMAN and LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

Lectures and laboratory on operative instruments and materials, their care and uses, and the technic of cavity preparations, fillings, and gold inlays.

Operative Dentistry 132—Operative dentistry lectures. Second year. 2 trimester credits. Professors HARTMAN and LINDIG, Drs. HUNT and M. R. MILLER.

Lectures on laboratory procedure in operative dentistry.

Operative Dentistry 233—Operative dentistry lectures. Third year. 1 trimester credit. Professors HARTMAN and OMAN.

Lectures and conferences on operative dentistry procedures.

Operative Dentistry 234—Operative dentistry technic and clinic. Third year. 10 trimester credits. Professors HARTMAN and LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

The technic of porcelain inlay and clinical practice and demonstrations.

Operative Dentistry 235—Operative dentistry lectures. Fourth year. 2 trimester credits. Professor HARTMAN.

Conference course on problems in operative dentistry and root canal therapy.

Operative Dentistry 236—Operative dentistry clinic. Fourth year. 13 trimester credits. Professors HARTMAN, OMAN, LINDIG, Drs. HUNT, M. R. MILLER, and THOMAS, and assistants.

Clinical practice and demonstrations in operative dentistry and root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Second year. 2 trimester credits. Professor LEONARD.

Lectures and conferences on scientific findings relating to the prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Third year. 5 trimester credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, and staff.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on

preventive malocclusion by early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243—Orthodontic elective. Fourth year. No credit. Professor WAUGH.

Clinical orthodontics. Offered to seniors who are eligible for electives in the Third Trimester.

PATHOLOGY

Pathology 150—General and special pathology. First and Second Trimesters, second year. 9 trimester credits: Professors JOBLING and SMETANA and assistants.

This course covers the subject matter of *Pathology 101FS* in the Medical School, but in abbreviated form.

Pathology 246—Oral pathology. Third year. 4 trimester credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Fourth year. No credit. Elective. Professor CAHN.

Conferences on the clinical application of oral pathology.

PERIODONTOLOGY

Periodontology 251—Periodontology clinic. Third year. 1 trimester credit. Professors LEONARD, HOLLIDAY, and BEUBE.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Fourth year. 2 trimester credits. Professors LEONARD and HIRSCHFELD and Dr. MERRITT.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontology clinic. Fourth year. 1 trimester credit. Professors LEONARD, HOLLIDAY, and BEUBE.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

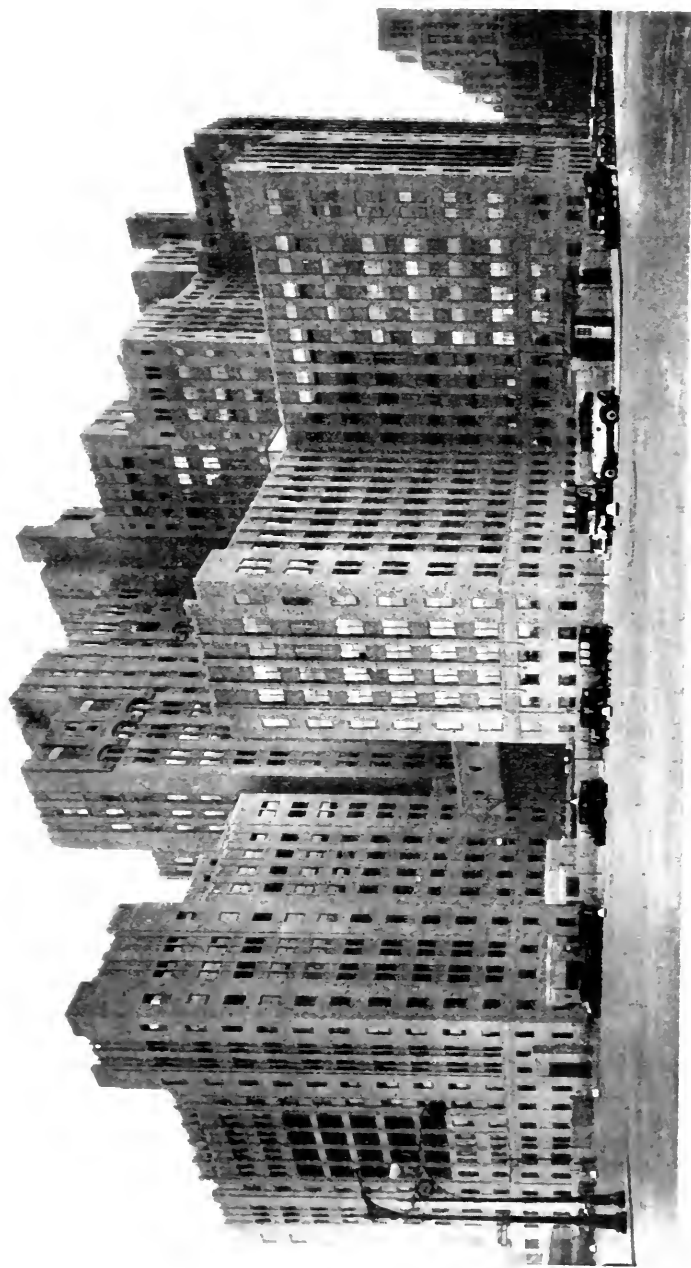
Pharmacology 150—General pharmacology. Second year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, HUMBERT, DISICK, and SPINGARN.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. Fourth year. 1 trimester credit. Dr. HUMBERT.

Not given in 1940-1941.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

PHYSIOLOGY

Physiology 150—Mammalian physiology. Second and Third Trimesters, first year. 10 trimester credits. Professor GREGERSEN and assistants.

Lectures, conferences, and laboratory. This course is equivalent to *Physiology 101* in the Medical School, with medical and dental students taking the lectures together.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Second year. 11 trimester credits. Professors YOUNG, RALSTON, and MCKENZIE and Dr. JUNEMANN.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Third year. 2 trimester credits. Professors YOUNG and G. P. SMITH.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Third year. 5 trimester credits. Professors YOUNG, RALSTON, and MCKENZIE and Dr. JUNEMANN.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Fourth year. 6 trimester credits. Professors HOYT, GILLET, YOUNG, McLAUGHLIN, G. P. SMITH, RALSTON, and MCKENZIE, and Drs. JUNEMANN and OLINGER.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Fourth year. 1 trimester credit. Professor HOYT and guest lecturers.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

PSYCHIATRY

Psychiatry 150—Psychopathology. Second Trimester, second year. 1 trimester credit. Professor LEWIS.

Lectures in psychobiology; the instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances. Principles of mental hygiene and environmental adjustments.

PUBLIC HEALTH

Public Health 222—Public health and community dentistry. Third year. 1 trimester credit. Professor W. B. DUNNING.

Lectures and conferences on community dentistry and public health practice.

RADIOLOGY

Radiology 165—Oral radiology conference. Second year. 1 trimester credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Third year. 1 trimester credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Second year. 2 trimester credits. Professor PARKER.

Lectures and conferences on general surgical diseases and the principles of their treatment.

Surgery 270—Oral surgery. Third year. 1 trimester credit. Professors PARKER and McCaffrey.

Lectures and conferences on local and general anesthesia and exodontia.

Surgery 271—Oral surgery clinic. Third year. 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCaffrey, Schroff, Birenbach, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia.

Surgery 272—Oral surgery. Fourth year. 2 trimester credits. Professors H. S. DUNNING and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Surgery 273—Oral surgery. Fourth year. 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCaffrey, Schroff, Birenbach, and assistants.

Further clinical practice and demonstration on local and general anesthesia, exodontia, oral surgical operations, and oral pathological and maxillo facial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics. Third year. 1 trimester credit. Professor W. B. DUNNING.

Lecture and conference course with collateral reading on ethics and dental ethics.

Theory and Practice 282—Dental jurisprudence and history. Fourth year. 1 trimester credit. Professor GILLET.

Lecture and conference course with collateral reading and essays.

Theory and Practice 283—Dental economics. Fourth year. 1 trimester credit. Professor W. B. DUNNING.

Lecture and conference course in dental economics and office management.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Cunningham, *Manual of Practical Anatomy*, \$12.75 a set. Choice of: Cunningham, *Textbook of Anatomy*, \$10.00; Gray, *Anatomy*, \$10.00; Piersol, *Human Anatomy*, \$10.00.

Microscopic anatomy. Bailey, *Textbook of Histology* (9th ed.), \$6.00.

Neuroanatomy. Choice of: Bailey, *Histology* (7th ed.); Ranson, *Anatomy of the Nervous System*, \$6.50.

Oral anatomy. Diamond, *Dental Anatomy* (2d revised ed.), \$4.00.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology* (Columbia ed.), \$3.00; *Laboratory Manual and Drawing Notebook*, *Oral Histology and Embryology*, \$1.00.

BACTERIOLOGY. Zinsser and Bayne-Jones, *Textbook of Bacteriology*, \$8.00; or Park and Williams, *Pathogenic Microorganisms*, \$8.00. Reference book: Gordon, et al, *Dental Science and Dental Art*, \$9.50.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$8.50.

CROWN AND BRIDGE. Mimeographed notes furnished by the Department. Recommended but not required: Le Gro, *Ceramics in Dentistry*, \$7.50; Felcher, *Porcelain in Dentistry*, \$9.00; Tylman, *Crown and Bridge Prosthesis*, \$10.00.

DENTAL MATERIALS. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

DIAGNOSIS. Mimeographed material furnished by the Department.

HYGIENE. Fones, *Mouth Hygiene*, \$5.00; or Fones, *Preventive Dentistry*, \$2.75.

MEDICINE. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.50; Meakins, *Practice of Medicine*, \$10.00.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, Vols. II and III, \$4.50 each. Mimeographed notes are also furnished by the Department.

ORTHODONTICS. Recommended for collateral reading: Strang, *Textbook of Orthodontia*, \$10.00; Dewey and Anderson, *Practical Orthodontia* (15th ed.), \$8.50; McCoy, *Applied Orthodontia* (5th ed.), \$4.50.

PATHOLOGY. Boyd, *Textbook of Pathology*, \$10.00; MacCallum, *Textbook of Pathology*, \$10.00.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Cushny, *Pharmacology and Therapeutics*, \$6.50; Sollmann, *Manual of Pharmacology*, \$7.50.

PROSTHETIC DENTISTRY. Recommended but not required: Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50; Swenson, *Complete Dentures*, \$10.00; Turner, *American Textbook of Prosthetic Dentistry*, \$10.00.

PSYCHIATRY. Henderson and Gillespie, *Textbook on Psychiatry*, \$6.00; Hinsie, *Syllabus of Psychiatry*, \$2.50; Muncie, *Psychobiology and Psychopathology*, \$8.00; Noyes, *Modern Clinical Psychiatry*, \$5.00.

PUBLIC HEALTH. Salzmann, *Principles and Practice of Public Health in Dentistry*, \$4.00.

RADIOLOGY. Recommended but not required: Ennis, *Dental Roentgenology* (3d ed.), \$6.00; Holliday, *Dental Radiology Handbook*, \$2.00.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Homans, *Textbook of Surgery*, \$8.00. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Blair and Ivy, *Essentials of Oral Surgery*, \$6.50; Flagg, *Art of Anesthesia*, \$5.00; Stout, *Human Cancer*, \$10.00.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50; Stedman, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

1940-1941

FOURTH YEAR—CLASS OF 1941

Axelroad, Saul Atlanta, Ga.
B.S., College of the City of New York, 1934
Beder, Oscar Edward Astoria, N. Y.
B.S., Rutgers, 1936
Columbia Medical School
Bergholz, Max Morton Brooklyn, N. Y.
B.S., College of the City of New York, 1935
A.M., Columbia, 1936
Berl, Jesse New York City
A.B., New York University, 1938
Berman, David Peter Hoboken, N. J.
B.S., Maryland, 1937
Breitner, Carl New York City
State Gymnasium (Vienna)
M.D., Vienna, 1925
Bromberg, Bertram Elias New York City
Long Island
Burt, Wesley Reppert Larchmont, N. Y.
A.B., Columbia, 1938
Capuzzo, Armand Rosario Brooklyn, N. Y.
College of the City of New York
Chayes, Charles MacKenzie New Rochelle, N. Y.
A.B., New York University, 1937
Collins, Edmund Martin New York City
A.B., Columbia, 1937
Dimond, Norman New York City
College of the City of New York
Dougherty, Lawrence Edward New York City
Fordham
Erdreich, Ulysses Brooklyn, N. Y.
B.S., Columbia, 1938
Feldman, Bernard Leonard Jackson Heights, N. Y.
B.S., New York University, 1934
DeLamar Institute of Public Health
Finkelstein, Selig Ossining, N. Y.
A.B., Cornell, 1937
Jacobson, John New York City
Ph.G., Fordham, 1926
B.S., New York University, 1932
Jagard, Walter James Brooklyn, N. Y.
A.B., Columbia, 1938
Jenkins, Palmer Holderby Yonkers, N. Y.
A.B., Colgate, 1935
Kamen, Paul Brooklyn, N. Y.
A.B., New York University, 1937
Kittay, Irving Brooklyn, N. Y.
College of the City of New York
Klatskin, Bertram Brooklyn, N. Y.
A.B., Cornell, 1937
Klatell, Jack Seymour Brooklyn, N. Y.
B.S., College of the City of New York, 1938
Knishkowsky, Emanuel Saul South Norwalk, Conn.
A.B., Yale, 1937
Koenig, Leonard Eli New York City
A.B., Indiana, 1937
Lambert, Harry Glen Cove, N. Y.
A.B., New York University, 1936
Lane, Stanley Lawrence New York City
B.S., New York University, 1936
M.D., New York University, 1939
Leff, Alexander New York City
College of the City of New York
Levao, Raymond New York City
B.S., College of the City of New York, 1938
Levene, Benjamin Fenton, Jr. New York City
A.B., Columbia, 1938

Loring, Morton A. New York City
A.B., New York University, 1938
Low, Maurice Edward New York City
B.S., New York University, 1937
Martin, George Henry, Jr. New York City
A.B., Columbia, 1938
Melnick, Sidney Baltimore, Md.
A.B., Iowa, 1936
Messing, Mortimer Brooklyn, N. Y.
Long Island
Morris, Melvin Lewis New York City
B.S., College of the City of New York, 1934
A.M., Columbia, 1937
Mund, Alvin New York City
B.S., College of the City of New York, 1936
Naidorf, Irving Joseph Brooklyn, N. Y.
A.B., New York University, 1937
Needham, John Joseph Brooklyn, N. Y.
A.B., Fordham, 1937
Pritz, John Ernest Brooklyn, N. Y.
B.S., Long Island, 1937
Rafkin, Irving David Brooklyn, N. Y.
Brooklyn
Nebraska
Rassi, Fred Kalil Brooklyn, N. Y.
A.B., Brooklyn, 1936
Reichenstein, George Ludwig New York City
Imperial Royal Maximilian Gymnasium
(Vienna)
M.D., Vienna, 1920
Riley, Ross Joseph Kearny, N. J.
A.B., New York University, 1937
Schrager, Arthur New York City
Columbia University Extension
Silverstein, Philip Brooklyn, N. Y.
A.B., New York University, 1938
Spengeman, Walter Gerard Pelham Manor, N. Y.
A.B., Columbia, 1938
Thomas, Arthur Seymour, Jr. Brooklyn, N. Y.
A.B., Columbia, 1937
Waldman, Morton Alexander New York City
B.S., College of the City of New York, 1939
Weinberg, Irving George Sea Cliff, N. Y.
B.S., New York University, 1937
Weisenfeld, Albert Harold Nanuet, N. Y.
B.S., Columbia, 1934
A.M., Columbia, 1937
Wolf, Raymond David Brooklyn, N. Y.
A.B., New York University, 1936

THIRD YEAR—CLASS OF 1942

Barrer, Harry George Reading, Pa.
B.S., Albright, 1938
Bellows, James William Saranac Lake, N. Y.
St. Lawrence
Bermak, Marcus New York City
B.S., College of the City of New York, 1938
Berman, William Brooklyn, N. Y.
New York University
Blank, Harold Herbert Brooklyn, N. Y.
New York University
Blumenfeld, Martin Brooklyn, N. Y.
A.B., Brooklyn, 1938
Blumenson, Seymour New York City
A.B., New York University, 1936
A.M., Columbia, 1938
Blumenthal, Joseph New York City
A.B., New York University, 1938

Cunti, Adeline Rheta A.B., Brooklyn, 1938	Brooklyn, N. Y.	Weinstein, Lawrence Abbott A.B., West Virginia, 1938	Brooklyn, N. Y.
De Giovanni, Anthony Assuntus A.B., Holy Cross, 1938	Brooklyn, N. Y.	Winter, Sidney Joseph B.S., Dalhousie, 1938	New York City
De Rose, Joseph John B.S., Manhattan, 1938	Astoria, N. Y.	Wolf, Joseph B.S., Boston, 1938	Lowell, Mass.
Drucker, Louis B.S., Albright, 1937	New York City	Zackheim, Lester Irving A.B., Columbia, 1938	New York City
Eisenstein, David B.S., New York University, 1938	Brooklyn, N. Y.	SECOND YEAR—CLASS OF 1943	
Fisher, Louis Cornell	Ogdensburg, N. Y.	Acquista, Charles B.S., St. John's (N. Y.), 1939	Brooklyn, N. Y.
Gerzog, Bertram Emanuel A.B., Columbia, 1939	Brooklyn, N. Y.	Berman, Melvin Gilbert A.B., New York University, 1939	Staten Island, N. Y.
Gibson, Joseph Arnet, Jr. A.B., Columbia, 1939	Forest Hills, N. Y.	Bodkin, Francis Fisher A.B., Georgetown, 1935	Brooklyn, N. Y.
Glatter, Sidney A.B., New York University, 1937	New York City	Columbia Medical School	
Greenfield, Samuel B.S., Dalhousie, 1938	Far Rockaway, N. Y.	Brignole, Louis Frank A.B., New York University, 1937	Jackson Heights, N. Y.
Gromet, Victor Hillel Brooklyn	Brooklyn, N. Y.	Budowsky, Jack New York University	Brooklyn, N. Y.
Gulli, Salvatore Philip St. John's (N. Y.)	Brooklyn, N. Y.	Burke, Edmund William B.S., Fordham, 1939	Brooklyn, N. Y.
Hagstrom, Albin Rand B.S., Bates, 1938	Brooklyn, N. Y.	Chess, Dorothy Rebecca New York University	Brooklyn, N. Y.
Hartman, Henry De Lacy A.B., Fordham, 1937	New Rochelle, N. Y.	Colmer, George Arthur B.S., Rutgers, 1939	New York City
Georgetown Medical School		Coyle, James Gerard Fordham	Hollis, N. Y.
Helfand, George A.B., New York University, 1938	New York City	Cruson, Daniel John B.S., Trinity (Conn.), 1939	Bridgeport, Conn.
Jarrett, Vincent Raymond B.S., Tufts, 1938	Stamford, Conn.	Diner, Harold New York University	Brooklyn, N. Y.
Kelly, Robert Louis B.S., Fordham, 1937	Brooklyn, N. Y.	Di Stasi, Samuel Michael A.B., New York University, 1939	Forest Hills, N. Y.
Klaif, Jerome Leonard A.B., New York University, 1938	Brooklyn, N. Y.	Dittmar, Adolph Gustav, Jr. Richmond Hill, N. Y.	
Lansing, Harold Jason B.S., New York University, 1933	Orange, N. J.	A.B., Hobart, 1936	
M.S., Pennsylvania, 1935		A.M., Columbia, 1939	
Luban, Joseph B.S., College of the City of New York, 1938	New York City	Dragiff, David Abraham B.S., College of the City of New York, 1939	Brooklyn, N. Y.
Meany, John Joseph Ryan A.B., Holy Cross, 1938	North Bergen, N. J.	Engel, Albert King A.B., Columbia, 1939	Jersey City, N. J.
Mooney, Alvin New York University	Jamaica, N. Y.	Farrell, Joseph Patrick St. John's (N. Y.)	Brooklyn, N. Y.
Panoff, Mortimer B.S., Maryland, 1937	Brooklyn, N. Y.	Feldman, Alvin Jonathan A.B., Pennsylvania, 1939	New York City
Pasternak, Richard A.B., Johns Hopkins, 1938	New York City	Goldsmith, Milton B.S., College of the City of New York, 1935	Brooklyn, N. Y.
Pearlman, Leonard Milton A.B., North Carolina, 1938	Brooklyn, N. Y.	Gordon, Emanuel J. B.S., College of the City of New York, 1939	New York City
Rhodes, Doris M. (Mrs.) Michigan	New York City	Gordon, Naomi Coval (Mrs.) A.B., New York University, 1939	Brooklyn, N. Y.
New York University		Gottlieb, Eugene A.B., Columbia, 1939	New York City
Rosner, Norman Lawrence A.B., New York University, 1938	New York City	Gottsegen, Robert A.B., Michigan, 1939	New York City
Ross, Joshua Felix B.S., College of the City of New York, 1937	New York City	Hall, Charles Mervin New York University	Oakhurst, N. J.
Shoham, Joseph B.S., College of the City of New York, 1935	New York City	Hersey, Glenwood Irving A.B., Columbia, 1938	Beverly, Mass.
Skarka, Anthony Union (N. Y.)	Schenectady, N. Y.	Columbia Medical School	
Tanz, Norman Pershing B.S., College of the City of New York, 1938	New York City	Hindels, George Verens-Realgymnasium (Vienna)	New York City
Tolvin, Ira A.B., New York University, 1937	Brooklyn, N. Y.	Holocinski, Alfred Walter College of the City of New York	Flushing, N. Y.
A.M., New York University, 1939		New York University	
Topolsky, Jack Murray A.B., Kansas, 1938	Brooklyn, N. Y.	Hopengarten, Sol A.B., New York University, 1939	New York City
Weber, Robert Farer A.B., Columbia, 1938	New York City	Jaffe, Alfred Rhode Island State College	Newport, R. I.
Weinreb, Julius B.S., College of the City of New York, 1938	New York City	Kaplan, Jacob Israel A.B., New York University, 1938	Brooklyn, N. Y.

Karmioli, Mortimer	New York City	Buchsbaum, Robert Bernard	North Bergen, N. J.
B.S., College of the City of New York, 1939		A.B., College of the City of New York, 1940	New York, 1940
Karp, Alfred	Jersey City, N. J.	Bushel, Arthur	Brooklyn, N. Y.
New York University		A.B., Brooklyn, 1940	
Lometti, Guido Mario	New York City	Caltabiano, Henry Ignazio	Brooklyn, N. Y.
A.B., Fordham, 1939		New York University	
McCue, Matthew Cornelius	Elizabeth, N. J.	Carlucci, Joseph Patrick	New York City
B.S., Fordham, 1939		B.S., Notre Dame, 1940	
McKeon, Charles James	New York City	Catalano, Philip Patrick	Brooklyn, N. Y.
B.S., Manhattan, 1937		B.S., St. John's (N. Y.), 1940	
Mandrachia, Stephen Vito	Brooklyn, N. Y.	Corcoran, John William	Central Islip, N. Y.
College of the City of New York		Columbia College	
St. John's (N. Y.)		Daglian, Kourken Arshag	New York City
Markowitz, Joseph Robert	New York City	College of the City of New York	
A.B., New York University, 1939		Devlin, Francis Patrick	Jersey City, N. J.
Medaglia, Joseph Mario	New York City	B.S., St. Peter's (N. J.), 1940	
B.S., College of the City of New York, 1938		Fiasconaro, Joseph Eugene	Corona, N. Y.
Menken, Norman	Jackson Heights, N. Y.	B.S., College of the City of New York, 1940	
New York University		Flashner, Jesse	New York City
Mozzer, Raymond Richard	Manchester, Conn.	A.B., New York University, 1940	
B.S., Fordham, 1939		Friedman, Irving	Brooklyn, N. Y.
Pro, Maynard James	Brooklyn, N. Y.	New York University	
A.B., New York University, 1939		Georgiade, Nicholas George	Jamaica, N. Y.
Sarubbi, Joseph Felix	Yonkers, N. Y.	Fordham	
B.S., Manhattan, 1939		Gutcho, Sanford Joseph	Brooklyn, N. Y.
Schept, Chester	Union City, N. J.	A.B., New York University, 1939	
A.B., Washington and Lee, 1938		Heidenreich, Irwin Paul	New York City
Shesler, Laurence Frank	Yonkers, N. Y.	New York University	
A.B., Columbia, 1940		Hirschfeld, Leonard Saul	New York City
Smith, Alexander Bryant	Glen Cove, N. Y.	*Senior in Columbia	
St. John's (N. Y.)		Isaacson, Alfred Elliot	Brooklyn, N. Y.
Stern, John Paul	New York City	New York University	
A.B., Columbia, 1939		Keneally, Francis Joseph	New York City
Tascher, Paul Joseph	Brooklyn, N. Y.	A.B., Fordham, 1940	
New York University		Lifshutz, Simon Louis	Long Island City, N. Y.
Varteressian, Levon Antoine	Laurelton, N. Y.	A.B., Columbia, 1939	
New York University		Link, Nathan Harold	Bradenton, Fla.
Vierno, Joseph Daniel	New York City	B.S., Bowling Green Business University, 1938	
A.B., Brooklyn, 1939		Lipson, Louis	Staten Island, N. Y.
Vogel, Stanley William	New York City	B.S., Columbia, 1939	
B.S., Columbia, 1939		Livolsi, Michael Adamo	Brooklyn, N. Y.
Wagreich, Paul	New York City	B.S., St. John's (N. Y.), 1939	
B.S., College of the City of New York, 1939		Malgieri, Anthony Mario	White Plains, N. Y.
Wellward, Robert Russell	New York City	B.S., Fordham, 1940	
B.S., New York University, 1939		Martin, John Davies	Montclair, N. J.
Westover, Warren Osmer	Brooklyn, N. Y.	A.B., Yale, 1938	
A.B., Columbia, 1940		Massin, Murray Aaron	New York City
Wolfram, Robert Sutter	Jamaica, N. Y.	A.B., Michigan, 1940	
B.S., St. Peter's (N. J.), 1938		May, Edward Joseph	Brooklyn, N. Y.
Long Island College of Medicine		*Senior in Columbia	
Yates, John Berchmans	Brooklyn, N. Y.	Mendelson, Max	New York City
A.B., Holy Cross, 1939		A.B., Brooklyn, 1940	
Yellin, Jacob Louis	New York City	Miller, William John	Woodside, N. Y.
A.B., Johns Hopkins, 1938		A.B., New York University, 1940	
Zulch, Frederick Raymond	White Plains, N. Y.	Mondshine, Stanley	Brooklyn, N. Y.
A.B., Brown, 1939		A.B., New York University, 1940	

FIRST YEAR—CLASS OF 1944

Bell, Harold Malcolm	Bridgeport, Conn.
B.S., Yale, 1939	
Berck, Leo	New York City
College of the City of New York	
Bevilacqua, Thomas Joseph	Brooklyn, N. Y.
A.B., Columbia, 1939	
Bongiorno, Alfred Michael	Brooklyn, N. Y.
A.B., Columbia, 1939	
Brzustowicz, Stanislaw Henry	Brooklyn, N. Y.
B.S., St. John's (N. Y.), 1940	

*Undergraduate students in Columbia University exercising professional option in the School of Dental and Oral Surgery.

Piper, Albert Omar	Waterville, Maine	Keren, Louis Irving	Washington, D. C.
B.S., Colby, 1936		D.D.S., Medical College of Virginia, 1935	
McGill Medical School		Klein, Ernest Theophil	Washburn, N. Dak.
Plotnick, Samuel	New York City	D.D.S., Marquette, 1928	
A.B., Columbia, 1940		Kohn, Sidney Irving	North Bergen, N. J.
Reilly, John Temple	St. Albans, N. Y.	D.D.S., Atlanta-Southern, 1935	
B.S., Fordham, 1940		Kreshtool, Louis	Wilmington, Del.
Rendich, Henry Joseph, Jr.	Rockville Centre, N. Y.	D.D.S., Maryland, 1936	
B.S., St. Peter's (N. J.), 1940		Poles, Marius Louis	Clifton, N. J.
Riffin, Meyer	Yonkers, N. Y.	D.D.S., Atlanta-Southern, 1933	
New York University		Pugh, Gordon Scott	Baltimore, Md.
Rosenberg, Ralph	Brooklyn, N. Y.	B.S., Maryland, 1933	
B.S., College of the City of New York, 1937		D.D.S., Maryland, 1937	
A.M., Columbia, 1938		Tekulsky, Irwin Nelson	New York City
Schneer, Richard Moses	Far Rockaway, N. Y.	D.D.S., New York University, 1932	
A.B., Virginia, 1940		Udis, Lewis Benjamin	Philadelphia, Pa.
Senderowitz, Samuel	Brooklyn, N. Y.	D.D.S., Temple, 1940	
A.B., New York University, 1939		Van Natta, Clinton Beatty	Bayonne, N. J.
Shattan, Boaz	Kingston, N. Y.	D.D.S., Pennsylvania, 1935	
A.B., Columbia, 1940		Weiser, Albert	Orange, N. J.
Shpuntoff, Harry	New York City	D.D.S., Pennsylvania, 1939	
B.S., College of the City of New York, 1939		Whitman, Clifford LeRoys	West Englewood, N. J.
Simon, Franklin	Elmhurst, N. Y.	D.D.S., Maryland, 1927	
A.B., New York University, 1939		Wiley, Albert	New York City
Smith, David Joseph	Brooklyn, N. Y.	D.D.S., Pennsylvania, 1928	
New York University		Wolf, Bernard, Jr.	Elizabeth, N. J.
Soraci, Frank Nicholas	Yonkers, N. Y.	D.D.S., Pennsylvania, 1930	
B.S., Manhattan, 1940			
Taggard, Joseph Franklin, Jr.	New York City		
B.S., Manhattan, 1939			
Cornell Medical School			
Tannenbaum, David	New York City		
B.S., College of the City of New York, 1934			
Urbano, Armand Paul	New York City		
B.S., Manhattan, 1939			
Vigersky, Harold	Jersey City, N. J.		
St. Peter's (N. J.)			
Weiss, Lawrence Abraham	New York City		
A.B., New York University, 1939			
Wesolowski, Vincent Thomas	Brooklyn, N. Y.		
St. John's (N. Y.)			
Zane, Jerome Arthur	New York City		
New York University			

POSTGRADUATE STUDENTS

CANDIDATES FOR THE CERTIFICATE
OF PROFICIENCY*Oral Surgery*

Rezk Blackburn, José	Bogotá, Colombia
D.D.S., National University of Colombia,	
1940	

Orthodontics

Alexander, Robert H.	White Plains, N. Y.
B.S., College of the City of New York, 1929	
D.D.S., Columbia, 1933	
Halprin, Saul	Newark, N. J.
D.D.S., Northwestern, 1932	
Hankins, Orville Lewis	Northampton, Mass.
A.B., Ohio, 1936	
D.M.D., Harvard, 1940	
Jay, James	Schenectady, N. Y.
D.D.S., Pennsylvania, 1940	
Katz, Solomon Leonard	New York City
D.D.S., Columbia, 1936	

SPECIAL STUDENTS

Clinical Practice

Chin-Ten-Fung, Gustaf René	Paramaribo, Dutch Guiana
D.D.S., Howard, 1932	
Eagan, Gerald Joseph	St. John's, Newfoundland
D.D.S., St. Louis, 1929	
Fischer, Bercu	New York City
D.D.S., College of Dental and Oral	
Surgery of New York, 1922	
Flatt, Francis Leon	Pittsfield, Ill.
D.D.S., Washington (Mo.), 1937	
Freivogel, Hans	Flushing, N. Y.
M.D., Vienna, 1921	
Hart, Virgil Stanley	Urbanna, Va.
B.S., Randolph-Macon, 1930	
D.D.S., Medical College of Virginia, 1932	
Leal Acosta, Miguel Joaquin	Havana, Cuba
D.D.S., Havana, 1930	
Wachstatter, Alois	Sunnyside, N. Y.
M.D., Prague, 1931	
D.D.S., Prague, 1932	
Zarchin, Jules	Paterson, N. J.
D.D.S., Temple, 1938	

SUMMARY

Fourth Year: Class of 1941.....	52
Third Year: Class of 1942.....	47
Second Year: Class of 1943.....	56
First Year: Class of 1944.....	60
Candidates for the certificate of proficiency.....	19
Special postgraduate students.....	9
Total.....	243

CONDENSED ACADEMIC CALENDAR

For other dates refer to the complete Academic Calendar, which may be obtained from the Secretary of the University.

1941

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee.

- September 15 Monday, to September 17, Wednesday. For undergraduate dental students.
- October 6 Monday, and October 7, Tuesday. For candidates for the certificate of proficiency.
-

- September 18 Thursday. Classes begin for undergraduates.
- October 8 Wednesday. Classes begin for candidates for the certificate of proficiency.
- October 13 Monday. Columbus Day. Not a University holiday.
- November 4 Tuesday. Election day. Holiday.
- November 20 Thursday. Thanksgiving. Holiday.
- December 1 Monday. Second Trimester begins, second year.
- December 4 Thursday. Second Trimester begins, third and fourth years.
- December 22 Monday to

1942

- January 4 Sunday, inclusive. Christmas holidays.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SPRING SESSION

- January 12 Monday, to January 17, Saturday. For undergraduate dental students.
- April 6 Monday, and April 7, Tuesday. For candidates for the certificate of proficiency.
-
- February 12 Thursday. Alumni Day. Not a University holiday.
- February 23 Monday. Washington's Birthday. Holiday.
- February 24 Tuesday. Third Trimester begins, second year.
- March 5 Thursday. Third Trimester begins, third and fourth years.
- March 29 Sunday, to April 5, Sunday, inclusive, Easter holidays.
- April 8 Wednesday. Classes begin for candidates for the certificate of proficiency.
- April 15 Wednesday. Last day for filing application or renewal of application for the degree of D.D.S. or for the certificate to be conferred in June. The privilege of later application may be granted on payment of a late fee.

1942

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|-----|----|---|
| May | 16 | Saturday. Classes end, fourth year. |
| May | 18 | Monday. Final examinations begin, fourth year. |
| May | 23 | Saturday. Classes end, first, second, and third years. |
| May | 25 | Monday. Final examinations begin, first, second, and third years. |
| May | 30 | Saturday. Memorial Day. Holiday. |

COMMENCEMENT, MAY 31 TO JUNE 2

- | | | |
|------|----|---------------------------------|
| May | 31 | Sunday. Baccalaureate Service. |
| June | 2 | Tuesday. Conferring of degrees. |

1941								1942								1942							
JULY								JANUARY								JULY							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	...	1	2	3	4	5		...	...	...	...	1	2	3		...	...	...	1	2	3	4	
6	7	8	9	10	11	12		4	5	6	7	8	9	10		5	6	7	8	9	10	11	
13	14	15	16	17	18	19		11	12	13	14	15	16	17		12	13	14	15	16	17	18	
20	21	22	23	24	25	26		18	19	20	21	22	23	24		19	20	21	22	23	24	25	
27	28	29	30	31	...	...		25	26	27	28	29	30	31		26	27	28	29	30	31	...	
AUGUST								FEBRUARY								AUGUST							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	...	...	...	...	1	2		1	2	3	4	5	6	7		...	...	...	...	...	...	1	
3	4	5	6	7	8	9		8	9	10	11	12	13	14		2	3	4	5	6	7	8	
10	11	12	13	14	15	16		15	16	17	18	19	20	21		9	10	11	12	13	14	15	
17	18	19	20	21	22	23		22	23	24	25	26	27	28		16	17	18	19	20	21	22	
24	25	26	27	28	29	30		...	...	...	...	...	...	...		23	24	25	26	27	28	29	
31	...	...	...	...	...	...		...	...	...	...	...	...	...		30	31	...	...	...	...	...
SEPTEMBER								MARCH								SEPTEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	1	2	3	4	5	6		1	2	3	4	5	6	7		...	...	1	2	3	4	5	
7	8	9	10	11	12	13		8	9	10	11	12	13	14		6	7	8	9	10	11	12	
14	15	16	17	18	19	20		15	16	17	18	19	20	21		13	14	15	16	17	18	19	
21	22	23	24	25	26	27		22	23	24	25	26	27	28		20	21	22	23	24	25	26	
28	29	30	...	...	...	...		29	30	31	...	...	...	...		27	28	29	30	...	...	...
OCTOBER								APRIL								OCTOBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	...	...	1	2	3	4		...	...	...	1	2	3	4		...	...	...	...	1	2	3	
5	6	7	8	9	10	11		5	6	7	8	9	10	11		4	5	6	7	8	9	10	
12	13	14	15	16	17	18		12	13	14	15	16	17	18		11	12	13	14	15	16	17	
19	20	21	22	23	24	25		19	20	21	22	23	24	25		18	19	20	21	22	23	24	
26	27	28	29	30	31	...		26	27	28	29	30	...	...		25	26	27	28	29	30	31	
NOVEMBER								MAY								NOVEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	...	...	...	...	1	...		...	...	...	...	...	1	2		1	2	3	4	5	6	7	
2	3	4	5	6	7	8		3	4	5	6	7	8	9		8	9	10	11	12	13	14	
9	10	11	12	13	14	15		10	11	12	13	14	15	16		15	16	17	18	19	20	21	
16	17	18	19	20	21	22		17	18	19	20	21	22	23		22	23	24	25	26	27	28	
23	24	25	26	27	28	29		24	25	26	27	28	29	30		29	30	...	...	...	...	...
30	...	...	...	...	...	...		31	...	...	...	...	...	...		...	...	...	...	...	...	...
DECEMBER								JUNE								DECEMBER							
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S	
...	1	2	3	4	5	6		...	1	2	3	4	5	6		...	...	1	2	3	4	5	
7	8	9	10	11	12	13		7	8	9	10	11	12	13		6	7	8	9	10	11	12	
14	15	16	17	18	19	20		14	15	16	17	18	19	20		13	14	15	16	17	18	19	
21	22	23	24	25	26	27		21	22	23	24	25	26	27		20	21	22	23	24	25	26	
28	29	30	31	...	...	...		28	29	30	...	...	...	...		27	28	29	30	31	...	...

Columbia University

BULLETIN OF INFORMATION

Forty-second Series, No. 28

June 20, 1942

ANNOUNCEMENT OF THE

SERIAL

SCHOOL OF DENTAL AND ORAL SURGERY

1942-1943



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Forty-second Series, No. 28

June 20, 1942

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These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 7,500—1942

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street; telephone Wadsworth 3-2500.

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ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1942-1943



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

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WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. *Dean*
HOUGHTON HOLLIDAY, A.B., D.D.S. *Associate Dean and Secretary of the Faculty*

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CHARLES F. BODECKER	EARLE BANKS HOYT
LESTER R. CAHN	ANNA V. HUGHES
HANS T. CLARKE	JAMES W. JOBLING
SAMUEL R. DETWILER	MAXWELL KARSHAN
MOSES DIAMOND	HAROLD J. LEONARD
HENRY S. DUNNING	CHARLES C. LIEB
WILLIAM B. DUNNING	EWING C. McBEATH
HENRY W. GILLETT	WILLARD C. RAPPLEYE
MAGNUS I. GREGERSEN	LEUMAN M. WAUGH

DANIEL E. ZISKIN

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HAROLD ALEXANDER ABRAMSON *Assistant Professor of Physiology*
A.B., Columbia, 1920; M.D., 1923.

EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922. [Oral Anatomy]

HENRY ULYSSES BARBER, JR. *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1916. [Orthodontics]

HENRY ARTHUR BARTELS *Assistant Professor of Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927. [Oral Pathology]
Assistant Bacteriologist, Division of Laboratories and Research, State
Department of Health; Attending Dental Surgeon, Bryson Day Nursery.

ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon,
Presbyterian Hospital.

FRANK E. BEUBE *Assistant Professor of Dentistry*
L.D.S., D.D.S., Toronto, 1930. [Periodontology]
Assisting Attending Dental Surgeon, Presbyterian Hospital.

¹SAMUEL BIRENBACH *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Surgery]
Visiting Oral Surgeon, Morrisania Hospital; Associate Oral Surgeon,
Beth Israel Hospital; Attending Oral Surgeon, St. John's Hospital.

¹ On leave 1942-1943.

- CHARLES FRANCIS BODECKER *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Oral Histology]
- RICHARD M. BRICKNER *Assistant Professor of Clinical Neurology*
B.S., Columbia, 1921; M.D., 1923.
- LESTER RICHARD CAHN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Pathology]
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE S. CALLAWAY *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1923. [Orthodontics]
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1913.
- KENNETH STEWART COLE *Associate Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- HOWARD JAMES CURTIS *Assistant Professor of Physiology*
B.S., Michigan, 1928; A.M., Swarthmore, 1929; Ph.D., Yale, 1932.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S., 1931.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914. [Oral Anatomy]
Consultant in Dentistry, Hawthorne Institute.
- ALPHONSE RAYMOND DOCHEZ *John E. Borne Professor of Medical and*
A.B., Johns Hopkins, 1903; M.D., 1907; Sc.D., New York University, 1925; Yale, 1926; Western Reserve, 1931. *Surgical Research*
- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; [Oral Surgery]
B.S., New York University, 1915.
Attending Oral Surgeon, Manhattan Eye, Ear, and Throat, Presbyterian, Sloane, and Babies Hospitals, and Vanderbilt Clinic; Consulting Oral Surgeon, Knickerbocker, Nassau, New York Foundling, Roosevelt, St. Vincent's, St. Luke's, Mary Immaculate, Jamaica, Norwalk, State Reconstruction, West Haverstraw, Greenwich, Stamford, United Port Chester, North Hudson, Meadowbrook, and Hackensack General Hospitals, Hospital for Ruptured and Crippled, National Hospital for Speech Disorders, and Vassar Brothers Hospital, Poughkeepsie.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895. [Periodontology]
Director of the Department of Dentistry, New York Orthopaedic Dispensary and Hospital.
- BION R. EAST *Assistant Professor of Public Health Practice*
D.D.S., Michigan, 1908.
- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- JOHN WILLIAM FERTIG *Professor of Biostatistics*
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935.
- FREDERICK BONNER FLINN *Associate Professor of Industrial Hygiene*
A.B., Johns Hopkins, 1900; Ph.D., Columbia, 1923.
- HENRY WEBSTER GILLET *Professor of Dentistry*
D.M.D., Harvard, 1885. [Prosthetics]
- MAGNUS INGSTRUP GREGERSEN *Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.

- LERROY LEO HARTMAN *Professor of Dentistry*
D.D.S., Northwestern, 1913; Sc.D., 1936. [Operative]
Attending Dental Surgeon, Presbyterian Hospital.
- MILO HELLMAN *Professor of Dentistry*
[Orthodontic Research]
D.D.S., Pennsylvania, 1905; Sc.D., 1933; Sc.D., Witwatersrand, 1938.
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902. [Periodontology]
Chief, Periodontia Department, Beth Israel Hospital; Attending Dental Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint Diseases.
- HOUGHTON HOLLIDAY *Associate Dean and Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917. [Radiology]
Attending Dental Surgeon, Presbyterian Hospital.
- JOSEPH HENRY HOLMES *Assistant Professor of Physiology*
A.B., Amherst, 1930; M.D., Western Reserve, 1934; Med.Sc.D., Columbia, 1941.
- EARLE BANKS HOYT *Professor of Dentistry*
D.D.S., Pennsylvania, 1918. [Prosthetics]
- ANNA VERONICA HUGHES *Professor of Dentistry*
D.M.D., Tufts, 1909. [Courses for Dental Hygienists]
Director of Courses for Dental Hygienists.
- JAMES WESLEY JOBLING *Delafield Professor of Pathology*
M.D., Tennessee Medical, 1897.
Director and Attending Pathologist, Presbyterian Hospital; Consulting Pathologist, Sloane Hospital.
- CLAUS W. JUNGEBLUT *Professor of Bacteriology*
M.D., Berne, 1921.
- MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- BARRY GRIFFITH KING *Assistant Professor of Physiology*
A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.
- WILLIAM LEFKOWITZ *Assistant Professor of Dentistry*
D.D.S., Columbia, 1924. [Oral Histology]
- HAROLD JUDSON LEONARD *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915. [Periodontology]
Attending Dental Surgeon, Presbyterian Hospital.
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914.
Director, Psychiatric Institute and Hospital; Director and Attending Psychiatrist, Vanderbilt Clinic; Consultant in Psychiatry, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906.
Consultant in Pharmacology, Mount Sinai Hospital.
- GEORGE FRANK LINDIG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924. [Operative]
- JOSEPHINE EMILY LUHAN *Assistant Professor of Dentistry*
D.D.S., New York College of Dental and [Courses for Dental Hygienists]
Oral Surgery, 1912.
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921. [Pedodontics]

- FRANCIS STEPHEN McCAFFREY *Associate Professor of Dentistry*
B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon,
Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Consulting Oral Surgeon,
Manhattan State Hospital, and St. Joseph's Hospital, Yonkers, N. Y.
- MORELL DION McKENZIE *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1917. [Prosthetics]
- DONALD JOHN W. McLAUGHLIN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1926. [Prosthetics]
- ¹LOIS COFFEY MOSSMAN *Associate Professor of Education*
B.S., Columbia, 1911; A.M., 1920; Ph.D., 1924. (Teachers College)
- EDWARD GERALD MURPHY *Assistant Professor of Dentistry*
D.D.S., Michigan, 1924. [Orthodontics]
- HARRY STOLL MUSTARD *Professor of Public Health Practice and*
Director of the DeLamar Institute of Public Health
M.D., Medical College of South Carolina, 1911; B.S., College of Charleston, 1914; L.L.D.,
1938.
- JOHN LESTER NICKERSON *Assistant Professor of Physiology*
B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1934.
- CARL REUBEN OMAN *Associate Professor of Dentistry*
D.D.S., Minnesota, 1914. [Operative]
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
M.D., Long Island College Hospital, 1912; D.D.S., Pennsylvania, 1914. [Oral Surgery]
Attending Oral Surgeon, City Hospital; Assistant Attending Oral Surgeon,
Babies Hospital and Vanderbilt Clinic; Consultant in Oral Surgery, Swedish, Vassar, U. S. Vet-
erans', and Grasslands Hospitals; Consulting Oral Surgeon, Yonkers General Hospital and Law-
rence Hospital, Bronxville.
- EARLE BERNARD PHELPS *Professor of Sanitary Science*
B.S., Massachusetts Institute of Technology, 1899.
- FRANK HENRY PIKE *Associate Professor of Physiology*
A.B., Indiana, 1903; Ph.D., Chicago, 1907.
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
D.D.S., Marion Sims Dental College, 1903. [Prosthetics]
Assisting Attending Dental Surgeon, Presbyterian Hospital.
- WILLARD COLE RAPPLEYE *Dean and Professor of Medical Economics*
A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922; Sc.D., Trinity (Conn.), 1939.
Dean, College of Physicians and Surgeons; Director, New York Post-Graduate Medical School.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Associate Professor of Physiology*
B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Assistant Professor of Dentistry*
B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930. [Pedodontics]
- JOSEPH SCHROFF *Associate Professor of Dentistry*
B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
D.D.S., 1922.
Associate Dentist, Mount Sinai Hospital; Attending Oral Surgeon, Jewish Memorial Hospital;
Associate Attending Dental Surgeon, Presbyterian Hospital.

¹ On leave 1942-1943.

- AURA EDWARD SEVERINGHAUS Associate Professor of Anatomy
B.S., Columbia, 1916; A.M., 1920; Ph.D., 1929.
- HARRY H. SHAPIRO Assistant Professor of Anatomy
D.M.D., Tufts, 1918.
- GEORGE K. SMELSER Assistant Professor of Anatomy
A.B., Earlham, 1929; Ph.D., Chicago, 1932.
- GILBERT PERCIVAL SMITH Assistant Professor of Dentistry
D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH Professor of Anatomy
B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
- EDITH E. SPROUL Assistant Professor of Pathology
M.D., Columbia, 1931.
Assistant Attending Pathologist, Presbyterian Hospital.
- LEWIS RIDDELL STOWE Associate Professor of Dentistry
D.D.S., Minnesota, 1916. [Pedodontics]
Associate Attending Dental Surgeon, Presbyterian and Babies Hospitals;
Consultant in Dental and Oral Surgery, Neurological Institute.
- ARTHUR CRANSTON TOTTEN Assistant Professor of Dentistry
D.D.S., Pennsylvania, 1926. [Orthodontics]
- LEUMAN MAURICE WAUGH Professor of Dentistry
D.D.S., Buffalo, 1900. [Orthodontics]
Consultant in Orthodontics, New York Infirmary for Women and Children.
- HORATIO BURT WILLIAMS Dalton Professor of Physiology
A.B., Syracuse, 1900; M.D., 1905; Sc.D., 1925.
- HARRY ALLEN YOUNG Associate Professor of Dentistry
D.D.S., Indiana, 1919. [Prosthetics]
- DANIEL E. ZISKIN Associate Professor of Dentistry
D.D.S., Minnesota, 1917. [Diagnosis]
Associate Attending Dental Surgeon, Presbyterian Hospital.
-
- HOWARD T. APPLGATE, D.D.S. Assistant in Dentistry
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]
- HERBERT DELBERT AYERS, JR., A.B., D.D.S. Instructor in Dentistry
Assistant Visiting Oral Surgeon, Queens General Hospital. [Dental Materials]
- WILLIAM WELLS BAADE, D.D.S. Assistant in Dentistry
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]
- CARLISLE C. BASTIAN, D.D.S. Special Lecturer in Dentistry
[Prosthetics]
- WALTER REGINALD BEAVEN, D.D.S. Instructor in Pharmacology
- EDWARD BECKER, D.M.D. Assistant in Dentistry
[Oral Surgery]
- NORMAN WINGATE BOYD, B.S., D.D.S. Instructor in Dentistry
[Prosthetics]
- ¹RICHARD GREGORY CARSON, B.S., D.D.S. Assistant in Dentistry
[Operative]

¹ On leave 1942-1943.

- KENNETH FULTON CHASE, D.M.D. *Instructor in Dentistry*
 Assisting Attending Dental Surgeon, Presbyterian Hospital; Consulting
 Dental Surgeon, New York Eye and Ear Infirmary; Clinical Assistant,
 Roosevelt Hospital. [Oral Surgery]
- ADA R. CLARK, Ph.D. *Instructor in Bacteriology*
- J. FRANCES COBBAN, R.N. *Special Lecturer in Dentistry*
 [Courses for Dental Hygienists]
- ¹GERARD LOUIS COURTADE, A.B., D.D.S. *Assistant in Dentistry*
 [Prosthetics]
- JOSEPH ANTHONY CUTTITA, M.S., D.D.S. *Assistant in Dentistry*
 [Diagnosis]
- ¹ROBERT CYRIL DEVINE, B.S., D.D.S. *Instructor in Dentistry*
 Resident Dentist, New York State Psychiatric Institute and Hospital. [Oral Surgery]
- SOLOMON DISICK, B.S., M.D. *Instructor in Pharmacology*
- FREDERICK SCHULKEN DOSCHER, B.S., D.D.S. *Assistant in Dentistry*
 [Oral Surgery]
- JACOB ERDREICH, D.M.D. *Assistant in Dentistry*
 [Oral Anatomy]
- GENEVIEVE FOLEY, A.M. *Assistant in Bacteriology*
- MARIO A. FRANZONE, D.D.S. *Assistant in Dentistry*
 [Oral Surgery]
- HERBERT PHILIP FRITZ, B.S., D.D.S. *Instructor in Dentistry*
 [Operative]
- HARRY ALLEN GALTON, D.D.S. *Instructor in Dentistry*
 [Orthodontics]
- BENJAMIN WILLIAM GLICK, A.M., M.D. *Instructor in Anatomy*
 Adjunct Surgeon, City Hospital; Clinical Assistant in Surgery, Mount Sinai Hospital.
- ISIDORE HARRY GOLDBERGER, M.D. *Special Lecturer in Dentistry*
 [Courses for Dental Hygienists]
 Assistant Clinical Professor of Pediatrics, New York University and Bellevue Hospital Medical
 College; Assistant Director of Health Education, Board of Education, New York City; Attending
 Pediatricist, Willard Parker Hospital; Associate Attending Pediatricist, Home for Hebrew Infants;
 Consulting Pediatricist, Morrisania General Hospital.
- EDWARD A. GRABER, M.D. *Assistant in Pathology*
- IRVING R. HARDY, D.M.D. *Special Lecturer in Dentistry*
 [Prosthetics]
- ¹MAURICE JOHN HICKEY, D.M.D., M.D. *Instructor in Surgery*
 Assistant Resident in Plastic Surgery, Presbyterian Hospital.
- ROLAND W. HIPSLEY, A.B., M.D. *Instructor in Anatomy*
- ROBERT HENRY HOFFMAN, D.D.S. *Assistant in Dentistry*
 [Oral Anatomy]
- KATHERINE FLORENCE HOLLIS *Instructor in Dentistry*
 [Courses for Dental Hygienists]
- MELVILLE HUMBERT, A.B., B.S., D.D.S. *Instructor in Pharmacology*

¹ On leave 1942-1943.

IRVIN LELAND HUNT, JR., D.D.S.	<i>Instructor in Dentistry</i> [Operative]
LEWIS EDWARD JACKSON, D.D.S.	<i>Instructor in Dentistry</i> [Orthodontics]
HENRY R. JUNEMANN, A.B., D.D.S.	<i>Instructor in Dentistry</i> [Prosthetics]
EDWARD HENRY KOCH, JR., A.B., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
BENNETT M. LATHROP, B.S., D.D.S.	<i>Assistant in Dentistry</i> [Pedodontics]
¹ JULIUS K. LITTMAN, M.D.	<i>Instructor in Anatomy</i> Assistant Adjunct in Surgery, Bronx Hospital.
L. VOSBURGH LYONS, M.D.	<i>Associate in Neurology</i> Attending Neurologist, Neurological Institute, City Hospital, and Vanderbilt Clinic; Consulting Neurologist, Englewood Hospital and State School for Boys, Warwick, N. Y.
JOSEPH L. MCSWEENEY, D.D.S.	<i>Assistant in Dentistry</i> Visiting Dental Surgeon, St. Vincent's Hospital. [Oral Surgery]
EMANUEL A. MANGINELLI, M.D.	<i>Instructor in Neurology</i>
GERARD WILLIAM MARCHAND, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]
GEORGE HENRY MARTIN, JR., A.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]
¹ ROBERT IRVING MASON, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
ARTHUR H. MERRITT, M.S., D.D.S., Sc.D.	<i>Special Lecturer in Dentistry</i> [Periodontology]
HENRY MILCH, A.B., M.D.	<i>Instructor in Anatomy</i> Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct Surgeon, Riverside Hospital.
MILTON ROBERT MILLER, B.S., D.D.S.	<i>Instructor in Dentistry</i> Attending Dental Surgeon, Unity Hospital. [Operative]
RUTH A. MILLER, Ph.D.	<i>Instructor in Anatomy</i>
WILLIAM MILLER, B.S., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
¹ JOHN JOSEPH NEEDHAM, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Diagnosis]
HARRY NEIVERT, M.D.	<i>Instructor in Otolaryngology</i>
FERDINAND G. NEUROHR, D.D.S.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
ROBERT W. NORTHROP, D.D.S.	<i>Instructor in Dentistry</i> Assisting Attending Dental Surgeon, Presbyterian Hospital. [Oral Surgery]
NATHANIEL A. OLINGER, B.S., D.D.S., Sc.D.	<i>Assistant in Dentistry</i> [Prosthetics]

¹ On leave 1942-1943.

ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S.	<i>Special Lecturer in Dentistry</i> [Orthodontics]
ENID TRIBE OPPENHEIMER, B.Sc.	<i>Instructor in Physiology</i>
ELIZABETH E. PAINTER, Ph.D.	<i>Instructor in Physiology</i>
DAVID POTTER, A.M.	<i>Instructor in Teaching of Speech</i> [Teachers College]
BENJAMIN SALZER, M.D.	<i>Instructor in Neurology</i>
LOUIS SCHORR, D.D.S.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
ALBIN ROBERT SEIDEL, D.M.D.	<i>Instructor in Dentistry</i> Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital. [Oral Surgery]
ELI H. SIEGEL, B.S., D.D.S.	<i>Assistant in Biochemistry</i>
NORMAN S. SIMMONS, B.S., D.M.D.	<i>Instructor in Dentistry</i> [Periodontology]
MARTIN IRVING SMITH, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
ELIAS L. STERN, B.S., M.D.	<i>Instructor in Anatomy</i> Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.
MARJORIE ROLOFF STETTEN, B.S.	<i>Assistant in Biochemistry</i>
FERDINAND A. STEWART, JR., A.B., D.D.S.	<i>Instructor in Dentistry</i> [Oral Surgery]
¹ BARBARA B. STIMSON, A.B., M.D., Med.Sc.D.	<i>Associate in Surgery</i>
HERBERT C. STOERCK, M.D.	<i>Assistant in Pathology</i>
SIDNEY H. STONE, B.S., D.D.S.	<i>Assistant in Pathology</i>
HARRY STRUSSER, D.D.S.	<i>Special Lecturer in Dentistry</i> Chief of Dental Division, Department of Health, New York City. [Courses for Hygienists]
BERNERD OWEN AMOS THOMAS, M.S., D.D.S.	<i>Instructor in Dentistry</i> [Oral Histology]
ASHER E. TREAT, Ph.D.	<i>Instructor in Physiology</i>
WILLIAM ANTHONY VERLIN, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Pedodontics]
WILLIAM W. WALCOTT, A.B.	<i>Instructor in Physiology</i>
GENEVA HASTINGS WALLS	<i>Instructor in Dentistry</i> [Courses for Dental Hygienists]
DONALD BYERS WAUGH, D.D.S.	<i>Instructor in Dentistry</i> [Orthodontics]
GLENN H. WHITSON, D.D.S.	<i>Assistant in Dentistry</i> [Orthodontics]
HAROLD C. WIGGERS, Ph.D.	<i>Instructor in Physiology</i>
¹ WILLIAM CARL WOHLFARTH, JR., Ph.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]

¹ On leave 1942-1943.

HAROLD S. WOODRUFF, D.D.S.	<i>Instructor in Dentistry</i> [Prosthetics]
LEONA R. ZACHARIAS, Ph.D.	<i>Instructor in Anatomy</i>
EDWARD VICTOR ZEGARELLI, A.B., D.D.S.	<i>Instructor in Dentistry</i> [Diagnosis]
HAROLD JACOB ZERR, A.B., D.D.S.	<i>Instructor in Dentistry</i> [Prosthetics]
MARJORIE B. ZUCKER, A.B.	<i>Instructor in Physiology</i>

CLINICAL ASSISTANTS

RALPH BECKER, B.S., D.D.S.	FREDERICK ROTHENBERG, D.D.S.
HARRY DARROW, D.D.S.	¹ WILLIAM JOSEPH SAVOY, B.S., D.D.S.
JOHN J. DOLCE, B.S., D.D.S.	HERBERT F. SILVERS, B.S., D.D.S.
SAMUEL R. DRELICH, D.D.S.	LEON SINGER, A.B., D.D.S.
¹ JOSEPH R. HORN, D.D.S.	HERBERT STOLLMACK, D.D.S.
THEODORE KATZ, A.B., D.D.S.	BENJAMIN TENENBAUM, B.S., D.D.S.
JESSE L. LEFCOURT, B.S., D.D.S.	ALVIN WEISS, A.B., D.D.S.
THEODORE R. PARKER, A.B., D.M.D.	LESTER A. WOLFSON, D.D.S.
WILBUR PREZZANO, B.S., D.D.S.	DAVID ZEISLER, D.D.S.
GUSTAVE REICH, D.D.S.	

PRESBYTERIAN HOSPITAL DENTAL SERVICE

ALBIN R. SEIDEL, D.M.D., *Director*

Attending Dental Surgeons

ADOLPH BERGER, D.D.S.	HAROLD J. LEONARD, A.B., D.D.S.
LEROY L. HARTMAN, D.D.S., Sc.D.	FRANCIS S. McCAFFREY, B.S., D.D.S.
ISADOR HIRSCHFELD, D.D.S.	ALBIN R. SEIDEL, D.M.D.
HOUGHTON HOLLIDAY, A.B., D.D.S.	

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	LEWIS R. STOWE, D.D.S.
JOSEPH SCHROFF, B.S., M.D., D.D.S.	DANIEL E. ZISKIN, D.D.S.

Assisting Attending Dental Surgeons

HOWARD T. APPLGATE, D.D.S.	KENNETH F. CHASE, D.M.D.
WILLIAM W. BAADÉ, D.D.S.	ROBERT W. NORTHROP, D.D.S.
FRANK E. BEUBE, L.D.S., D.D.S.	JOHN F. RALSTON, D.D.S.

Interns

WILLIAM LAURIE ELLIOT, D.D.S.	PALMER HOLDERBY JENKINS, A.B., D.D.S.
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¹ On leave 1942-1943.

PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

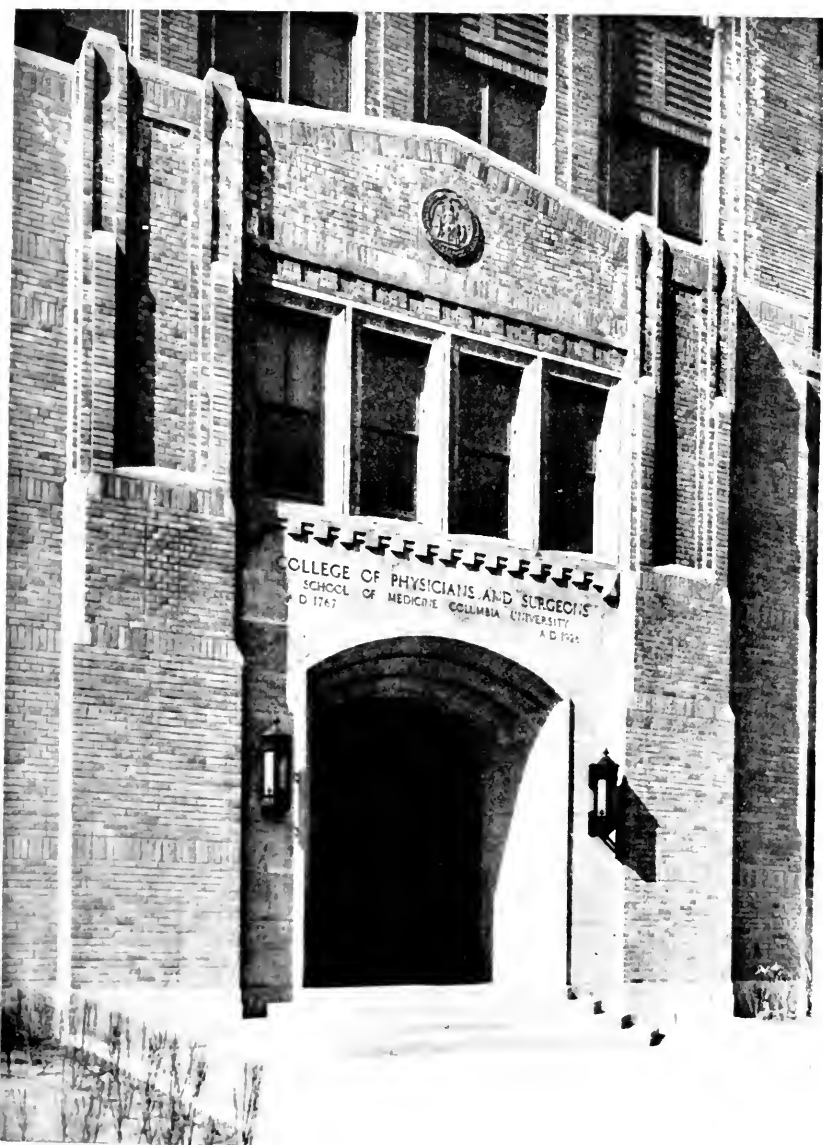
HENRY S. DUNNING, B.S., M.D., D.D.S., *Attending Oral Surgeon*

COMMITTEES

*Administration*Dean RAPPLEYE, *Chairman*, Professors BODECKER, H. S. DUNNING, HARTMAN,
HOLLIDAY, HOYT, LEONARD, and WAUGH*Curriculum*Professor HOLLIDAY, *Chairman*, Professors BERGER, CAHN, HARTMAN,
HOYT, LEONARD, and LIEB*Library*Professor HOLLIDAY, *School of Dental and Oral Surgery Representative**Extension and Graduate Courses*Professor WAUGH, *Chairman*, Professors BERGER and McBEATH*Research*Professor BODECKER, *Chairman*, Professors CAHN, KARSHAN,
McBEATH, H. SHAPIRO, and ZISKIN

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Provost of the University</i>
PHILIP M. HAYDEN, A.M.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Director of University Admissions</i>
BERNARD P. IRELAND, A.M.	<i>Assistant Director of University Admissions</i>
JOSEPH M. MURPHY, A.M.	<i>Assistant Director of University Admissions</i>
CHARLES C. WILLIAMSON, Ph.D., Litt.D.	<i>Director of Libraries</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Director of Buildings and Grounds</i>
REV. STEPHEN FIELDING BAYNE, JR., S.T.M.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
THOMAS A. MCGOEY, M.S.	<i>Director of University Residence Halls</i>
ARTHUR E. MATZKE, A.B., B.S., C.E.	<i>Head of Men's Residence Halls</i>
MARGARET BARNARD PICKEL, Ph.D.	<i>Adviser to Women Graduate Students and Head of Johnson Hall</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.M.	<i>Alumni Secretary</i>
THOMAS P. FLEMING, M.S.	<i>Medical Librarian</i>



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE SCHOOL
OF DENTAL AND ORAL SURGERY

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, giving a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission, and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course in dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments with students of the College of Physicians and Surgeons.

During the national emergency the School will be on an accelerated program which, without changing the course, will permit the student to graduate in three calendar years. The first class to be accepted on this basis will enter on July 7, 1942. It is intended that succeeding classes will be enrolled at approximately nine-month intervals.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a dis-

charge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school or faculty concerned may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 100,000 volumes and about 10,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. This library has been formed through the consolidation of departmental libraries to serve more adequately the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. It has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,100 current journals, and near by are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks.

A series of lectures and seminars on the history of medicine is arranged by the Library Committee during the school year.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The Libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10

p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation. The University Medical Officer, Dr. W. H. McCASTLINE, has supervision of all matters affecting the health of the student body.

RESIDENCE HALLS

The University maintains on the Campus at 116th Street or immediately adjacent thereto Residence Halls for men and women, information about which will be furnished on request by the Secretary of the University, 213 Low Memorial Library. The office of the Director of University Residence Halls is 125 Livingston Hall.

OFF-CAMPUS ACCOMMODATIONS

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the Registry of Off-Campus Accommodations in Alumni House.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on B floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services.

HAMILTON ARBORETUM AND GARDENS ("NEVIS")

The Hamilton Arboretum and Gardens ("Nevis"), an estate of approximately sixty-eight acres, the gift of Mrs. T. Coleman du Pont, of Wilmington, Delaware, is located at Irvington-on-Hudson, about sixteen miles north of New York City. Classes in landscape architecture and general horticulture meet at "Nevis," and special lectures are arranged from time to time.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$1.25 in cloth and \$.50 in paper. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application during the academic

year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

The minimum requirement for admission to the first year class is successful completion of three full years at an acceptable college of arts and sciences, which must include successful completion of the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary, but so difficult to attain in later years.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all of the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein,

and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

SUMMER SESSION

Beginning in 1942, a full session, covering the work of one third of an academic year, will be required of all undergraduate students during the summer period. The tuition fee will be \$166.67. In 1942 the session will continue from July 7 to September 19, inclusive, with a vacation period from August 31 to September 7.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address Professor ANNA V. HUGHES, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1941-1942 short refresher courses were offered in applied anatomy, oral diagnosis, oral pathology, orthodontics, periodontia, and practice management. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half-time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate

and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country, and membership in good standing in the applicant's national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized fourteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. The course is open to graduate dentists who have completed satisfactory courses in the fundamental sciences and who hold a Bachelor of Science or Bachelor of Arts degree. For information regarding course content, registration, and fees apply to the DeLamar Institute of Public Health, 600 West 168th Street, New York City.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time in the discretion of the Trustees.

The following fees are prescribed for dental students:

(a) University Fee

For each Winter, Spring, or Summer Session or any part thereof . . . \$10.00

(b) Tuition Fee

1. For the course in dentistry for a Winter or Spring Session in the case of a student enrolled for the full course . . . 250.00
- For the course in dentistry for a Summer Session in the case of a student enrolled for the full course . . . 166.67
- (The total tuition fees, not including special fees, for the complete prescribed course in dentistry will continue to be \$2,000.)
- For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

(c) Fee for Application

1. For a degree . . . 20.00
2. For a certificate . . . 10.00

(d) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations . . . 3.00
2. Deficiency or special examinations . . . 3.00
3. Renewal of application for any degree or certificate . . . 1.00

(e) Student Activities (payable annually)

1. For all students, *Columbia Dental Review* . . . 1.50
2. For sophomores, juniors, and seniors, junior membership in the American Dental Association . . . 3.00
3. Student activities50

(f) Case Rental

For sophomores, juniors, and seniors, rental of one instrument case . . . 5.00

(g) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the second Saturday of the Winter Session or after the first Saturday of the Spring Session, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(h) Deposit \$25.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specified session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student under the accelerated program in the School of Dental and Oral Surgery for the year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year and can be accepted as applicable for the year 1942-1943 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$726.67	\$718.67
Room	275.00	225.00
Board	400.00	330.00
Books	80.00	40.00
Instruments (see below)	200.00	200.00
Laundry	50.00	36.00
	<hr/>	<hr/>
	\$1,831.67	\$1,549.67

The approximate cost of instruments for the four-year course is \$600. In addition, the microscope required at the beginning of the course will cost between \$60 and \$157. The cost of books will vary, depending upon the choice made from the selection offered. Instruments are to be paid for at the opening of the academic year.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class Faculty under which he has studied during the preceding year.

2. The Faculty of the School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
 - a) Unconditionally
 - b) Conditionally
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, work unsatisfactory, re-examination required.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examination or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

The W. K. Kellogg Foundation has provided scholarship and loan assistance to a limited number of dental students who have been accepted by the military services and who satisfy the requirements of scholastic ability, character, and need.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Glover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award, the income from \$1,000, is given annually to a senior student in the dental school who stands high in scholastic attainments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

The E. D. Newman award is made annually by the Alpha Omega Fraternity to the member of the graduating class who has received the highest scholastic average for the entire professional course.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual certificate award for proficiency in dentistry for children has been established by the *Dental Columbian* of the Class of 1939.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 percent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to sophomores, juniors, and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the

School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, JOHN J. MAYERS, D.D.S.

Vice-President, LOUIS N. CITRON, D.D.S.

Secretary, NATHAN SHECKMAN, B.S., D.D.S.

Treasurer, HANNAH J. APPEL, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to the Board of Governors of Columbia Alumni Federation, DRS.
JAMES M. DUNNING, MANUEL M. MASLANSKY, and HERMAN N. SHECKMAN

Any graduate, former student, Faculty member, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

CURRICULUM

By utilizing the summer periods, the work of the four academic years will be covered in three calendar years during the national emergency.

<i>Subject</i>	<i>Trimester Credits</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FRESHMAN YEAR:				
Anatomy				
Embryology	2	20	...	20
Gross	15	60	262	322
Microscopic	8	38	126	164
Neuro	4	60	...	60
Oral	6	18	95	113
Biochemistry	8	35	105	140
Histology, oral	2	7	61	68
Physiology	10	56	148	204
SOPHOMORE YEAR:	55			1,091
Bacteriology	7	40	90	130
Crown and bridge	4	10	85	95
Dental materials	2	...	60	60
Oral hygiene	2	20	...	20
Operative dentistry	9	20	215	235
Pathology	11	70	130	200
Pharmacology	6	40	60	100
Prophylaxis	1	...	30	30
Prosthetic dentistry	10	20	210	230
Psychopathology	1	10	...	10
Radiology	1	10	...	10
Surgery, oral	2	20	...	20
JUNIOR YEAR:	56			1,140
Anatomy, applied	1	10	...	10
Bacteriology	1	10	...	10
Crown and bridge				
Technic	6	10	135	145
Porcelain	2	...	60	60
Round wire	1	...	30	30
Diagnosis, dental	4	30	30	60
Operative dentistry	11	10	300	310
Orthodontics	5	20	75	95
Pathology, oral	4	20	60	80
Periodontology	1	...	30	30
Prosthetic dentistry	7	20	150	170
Public health	1	10	...	10
Radiology	1	...	30	30
Surgery, oral	2	10	30	40
Theory and practice	1	10	...	10
SENIOR YEAR:	48			1,090
Crown and bridge	8	10	175	185
Diagnosis, dental	1	...	30	30
Operative dentistry	15	20	350	370
Pedodontics	4	10	90	100
Periodontology	3	20	25	45
Pharmacology, applied	1	10	...	10
Practice of medicine	7	60	20	80
Prosthetic dentistry	7	10	180	190
Surgery, oral	3	40	30	70
Theory and practice	2	20	...	20
Senior electives	51			1,100
Oral pathology . . . . .	...	15	...	15
Oral surgery . . . . .	...	30	...	30
Orthodontics . . . . .	...	...	30	30

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on page 27 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Courses enclosed in brackets are not given in 1942-1943.

Each senior is required to present a thesis representing original reading, scientific research, or both. This shall be completed under the immediate supervision of Associate Dean HOLLIDAY and with the help of an adviser in the field selected.

Members of the senior class will also be required to take a comprehensive examination, which will be given near the end of the academic year, and the results will be considered as one of the indications of the fitness of the candidates for graduation.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits. Professor DIAMOND and assistants.

Lectures, recitations, and laboratory on the growth and development of the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits. Professors BODECKER and LEFKOWITZ and Dr. THOMAS.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits. Professors P. E. SMITH, COPENHAVER, ENGLE, SEVERINGHAUS, and assistants.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits. Professors ROGERS and SHAPIRO and assistants.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits. Professors DETWILER, COPENHAVER, ROGERS, and SMELSER and Dr. ZACHARIAS.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits. Professors ELWYN and BRICKNER, Drs. SALZER, LYONS, and MANGINELLI.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Junior year. 1 credit. Professors ROGERS and SHAPIRO.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits. Professors DOCHEZ, JUNGBLUT, and ROSEBURY and staff.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

Bacteriology 253—Bacteriology and etiology of dental disease. Junior year. 1 credit. Professor ROSEBURY.

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits. Professor KARSHAN and assistants.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Sophomore year. 4 credits. Professors HOYT and McLAUGHLIN, Drs. MARCHAND, WOHLFARTH, and ZERR.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Junior year. 6 credits. Professors HOYT and McLAUGHLIN, Drs. MARCHAND, WOHLFARTH, and ZERR.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 207—Porcelain technic. Junior year. 2 credits. Professor McLAUGHLIN and Dr. MARCHAND.

Uses of porcelain; construction of porcelain jacket crown on technic model; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Junior year. 1 credit. Professor GILLET and Dr. ZERR.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. Senior year. 1 credit. Professor HOYT.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Senior year. 7 credits. Professors HOYT, GILLET, G. P. SMITH, McLAUGHLIN, Drs. BOYD, JUNEMANN, MARTIN, and WOODRUFF.

Clinical construction of crown and bridgework.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits. Dr. AYERS.

Metallurgical processes and apparatus and physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits. Professor ZISKIN and clinical staff.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal dys-harmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit. Professors ZISKIN, STOWE, and ROSENSTEIN and the clinical staff.

Continuation of clinic of *Diagnosis 212*.

HYGIENE AND PROPHYLAXIS

Hygiene 121—Hygiene and prophylaxis. Sophomore year. 1 credit. Professors LEONARD and BEUBE and Dr. SIMMONS.

Lectures, laboratory, and clinical work on personal dental hygiene and dental prophylactic technic.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 7 credits. Professor McBEATH and associates.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Operative dentistry technic. Sophomore year. 7 credits. Professors HARTMAN and LINDIG, Drs. FRITZ, HUNT, and M. R. MILLER, and assistants.

Lectures and laboratory on operative instruments and materials, their care and uses, and the technic of cavity preparations, fillings, and gold inlays.

Operative Dentistry 132—Operative dentistry lectures. Sophomore year. 2 credits. Professors HARTMAN and LINDIG, Drs. HUNT and M. R. MILLER.

Lectures on laboratory procedure in operative dentistry.

Operative Dentistry 233—Operative dentistry lectures. Junior year. 1 credit. Professors HARTMAN and OMAN.

Lectures and conferences on operative dentistry procedures.

Operative Dentistry 234—Operative dentistry technic and clinic. Junior year. 10 credits. Professors HARTMAN and LINDIG, Drs. HUNT and M. R. MILLER, and assistants.

The technic of porcelain inlay and clinical practice and demonstrations.

Operative Dentistry 235—Operative dentistry lectures. Senior year. 2 credits. Professor HARTMAN.

Conference course on problems in operative dentistry and root canal therapy.

Operative Dentistry 236—Operative dentistry clinic. Senior year. 13 credits. Professors HARTMAN, OMAN, LINDIG, Drs. HUNT, M. R. MILLER, and THOMAS, and assistants.

Clinical practice and demonstrations in operative dentistry and root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits. Professor LEONARD and Dr. SIMMONS.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 5 credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, and staff.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on preventive malocclusion by early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243—Orthodontic elective. Senior year. No credit. Professor WAUGH.

Clinical orthodontics. Offered to seniors who are eligible for electives.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 11 credits. Professors JOBLING and SPROUL and assistants.

This course covers the subject matter of *Pathology 101FS* in the Medical School, but in abbreviated form.

Pathology 246—Oral pathology. Junior year. 4 credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective. Professor CAHN.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits. Professors McBEATH, STOWE, and ROSENSTEIN.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 251—Periodontology clinic. Junior year. 1 credit. Professors LEONARD, HOLLIDAY, BEUBE, and Dr. SIMMONS.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits. Professors LEONARD and HIRSCHFELD and Dr. MERRITT.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontology clinic. Senior year. 1 credit. Professors LEONARD, HOLLIDAY, BEUBE, and Dr. SIMMONS.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, HUMBERT, and DISICK.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. Senior year. 1 credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits. Professor GREGERSEN and assistants.

Lectures, conferences, and laboratory. This course is equivalent to *Psychology 101* in the Medical School, with medical and dental students taking the lectures together.

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits. Professors YOUNG, RALSTON, and McKENZIE and Dr. JUNEMANN.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits. Professors YOUNG and G. P. SMITH.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 5 credits. Professors YOUNG, RALSTON, and McKENZIE and Dr. JUNEMANN.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 6 credits. Professors HOYT, GILLETT, YOUNG, McLAUGHLIN, G. P. SMITH, RALSTON, and McKENZIE, and Drs. JUNEMANN, MARTIN, and OLINGER.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit. Professor HOYT and guest lecturers.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit. Professor LEWIS.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances. Principles of mental hygiene and environmental adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 1 credit. Professor MUSTARD and staff.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Junior year. 1 credit. Professor HOLLIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits. Professor PARKER.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases.

Surgery 270—Oral surgery. Junior year. 1 credit. Professors PARKER and McCAFFREY.

Lectures and conferences on local and general anesthesia and exodontia.

Surgery 271—Oral surgery clinic. Junior year. 1 credit. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia.

Surgery 272—Oral surgery. Senior year. 2 credits. Professors H. S. DUNNING and BERGER.

Lectures and conferences on oral and maxillo-facial surgery.

Surgery 273—Oral surgery clinic. Senior year. 1 trimester credit. Professors H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and assistants.

Further clinical practice in local and general anesthesia, exodontia, and oral surgical operations.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective. Professors H. S. DUNNING, BERGER, PARKER, and McCAFFREY.

Demonstrations on oral pathological and maxillofacial lesions.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics. Junior year. 1 credit. Professor W. B. DUNNING.

Lecture and conference course on ethics and dental ethics.

Theory and Practice 282—Dental jurisprudence and history. Senior year. 1 credit. Professor GILLET.

Lecture and conference course with collateral reading and essays.

Theory and Practice 283—Dental economics. Senior year. 1 credit. Professor W. B. DUNNING.

Lecture and conference course in dental economics and office management.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Cunningham, *Manual of Practical Anatomy*, \$12.75 a set. Choice of: Cunningham, *Textbook of Anatomy*, \$10.00; Gray, *Anatomy*, \$10.00; Piersol, *Human Anatomy*, \$10.00.

Microscopic anatomy. Bailey, *Textbook of Histology* (9th ed.), \$6.00.

Neuroanatomy. Choice of: Bailey, *Histology* (7th ed.); Larsell, *Textbook of Neuroanatomy and Sense Organs*, \$6.00; Mettler, *Neuroanatomy*, \$7.50; Ranson, *Anatomy of the Nervous System*, \$6.50.

Oral anatomy. Diamond, *Dental Anatomy* (2d revised ed.), \$4.00.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology* (Columbia ed.), \$3.00; *Laboratory Manual and Drawing Notebook, Oral Histology and Embryology*, \$1.00.

BACTERIOLOGY. Jordan and Burrows, *Textbook of Bacteriology*, \$6.00. Reference book: Gordon, et al, *Dental Science and Dental Art*, \$9.50.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$8.00.

CROWN AND BRIDGE. Mimeographed notes furnished by the Department. Recommended but not required: Le Gro, *Ceramics in Dentistry*, \$7.50; Felcher, *Porcelain in Dentistry*, \$9.00; Tylman, *Crown and Bridge Prosthesis*, \$10.00.

DENTAL MATERIALS. Bureau of Standards Research Paper No. 32, United States Government Printing Office, 35 cents.

DIAGNOSIS. Mimeographed material furnished by the Department.

HYGIENE. Fones, *Mouth Hygiene*, \$5.00; or Fones, *Preventive Dentistry*, \$2.75.

MEDICINE. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.50; Meakins, *Practice of Medicine*, \$10.00.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, Vols. II and III, \$5.50 each. Mimeographed notes are also furnished by the Department.

ORTHODONTICS. Recommended for collateral reading: Strang, *Textbook of Orthodontia*, \$10.00; Dewey and Anderson, *Practical Orthodontia* (15th ed.), \$8.50; McCoy, *Applied Orthodontia* (5th ed.), \$4.50.

PATHOLOGY. Boyd, *Textbook of Pathology*, \$10.00; MacCallum, *Textbook of Pathology*, \$10.00.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Blayney, *Dental Pharmacology*, \$4.00; Cushny, *Pharmacology and Therapeutics*, \$6.50; McGehee, *Dental Pharmacology*, \$5.00; Sollmann, *Manual of Pharmacology*, \$8.75.

PROSTHETIC DENTISTRY. Recommended but not required: Anthony, *American Textbook of Prosthetic Dentistry*, \$10.00; Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50; Swenson, *Complete Dentures*, \$10.00.

PSYCHIATRY. Henderson and Gillespie, *Textbook on Psychiatry*, \$6.00; Hinsie, *Syllabus of Psychiatry*, \$2.50; Muncie, *Psychobiology and Psychopathology*, \$8.00; Noyes, *Modern Clinical Psychiatry*, \$5.00; Strecker and Ebaugh, *Practical Clinical Psychiatry*, \$5.00.

PUBLIC HEALTH. Mustard, *Rural Health Practice*, \$4.00; Salzmann, *Principles and Practice of Public Health in Dentistry*, \$4.00.

RADIOLOGY. Recommended but not required: Ennis, *Dental Roentgenology* (3d ed.), \$6.00; Holliday, *Dental Radiology Handbook*, \$2.00.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Homans, *Textbook of Surgery*, \$8.00. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Blair and Ivy, *Essentials of Oral Surgery*, \$6.50; Flagg, *Art of Anesthesia*, \$5.00; Stout, *Human Cancer*, \$10.00.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50; Stedman, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

1941-1942

FOURTH YEAR—CLASS OF 1942

Barrer, Harry George Reading, Pa.
 B.S., Albright, 1938
 Bellows, James William Saranac Lake, N. Y.
 St. Lawrence
 Bermak, Marcus New York City
 B.S., College of the City of New York, 1938
 Berman, William Brooklyn, N. Y.
 New York University
 Blank, Harold Herbert Brooklyn, N. Y.
 New York University
 Blumenfeld, Martin Brooklyn, N. Y.
 A.B., Brooklyn, 1938
 Blumenson, Seymour New York City
 A.B., New York University, 1936
 A.M., Columbia, 1938
 Blumenthal, Joseph New York City
 A.B., New York University, 1938
 Cunti, Adeline Rita Brooklyn, N. Y.
 A.B., Brooklyn, 1938
 De Giovanni, Anthony Assuntus Brooklyn, N. Y.
 A.B., Holy Cross, 1938
 De Rose, Joseph John Astoria, N. Y.
 B.S., Manhattan, 1938
 Drucker, Louis New York City
 B.S., Albright, 1937
 Eisenstein, David Brooklyn, N. Y.
 B.S., New York University, 1938
 Fisher, Louis Ogdensburg, N. Y.
 Cornell
 Freivogel, Hans Flushing, N. Y.
 M.D., Vienna, 1921
 Gerzog, Bertram Emanuel Brooklyn, N. Y.
 A.B., Columbia, 1939
 Gibson, Joseph Arnet, Jr. Forest Hills, N. Y.
 A.B., Columbia, 1939
 Glatter, Sidney New York City
 A.B., New York University, 1937
 Greenfield, Samuel Far Rockaway, N. Y.
 B.S., Dalhousie, 1938
 Gromet, Victor Hillel Brooklyn, N. Y.
 Gulli, Salvatore Philip Brooklyn, N. Y.
 St. John's (N. Y.)
 Hagstrom, Albin Rand Brooklyn, N. Y.
 B.S., Bates, 1938
 Hartman, Henry De Lacy New Rochelle, N. Y.
 A.B., Fordham, 1937
 Georgetown Medical School
 Helfand, George New York City
 A.B., New York University, 1938
 Jarrett, Vincent Raymond Stamford, Conn.
 B.S., Tufts, 1938
 Kelly, Robert Louis Brooklyn, N. Y.
 B.S., Fordham, 1937
 Klaf, Jerome Leonard Brooklyn, N. Y.
 A.B., New York University, 1938
 Lansing, Harold Jason Orange, N. J.
 B.S., New York University, 1933
 M.S., Pennsylvania, 1935
 Luban, Joseph New York City
 B.S., College of the City of New York, 1938
 Meany, John Joseph Ryan North Bergen, N. J.
 A.B., Holy Cross, 1938
 Mooney, Alvin Jamaica, N. Y.
 New York University
 Panoff, Mortimer Brooklyn, N. Y.
 B.S., Maryland, 1937
 Pasternak, Richard New York City
 A.B., Johns Hopkins, 1938

Pearlman, Leonard Milton Brooklyn, N. Y.
 A.B., North Carolina, 1938
 Rhodes, Doris M. (Mrs.) New York City
 Michigan
 New York University
 Rosner, Norman Lawrence New York City
 A.B., New York University, 1938
 Ross, Joshua Felix New York City
 B.S., College of the City of New York, 1937
 Shoham, Joseph New York City
 B.S., College of the City of New York, 1935
 Skarka, Anthony Schenectady, N. Y.
 Union (N. Y.)
 Tanz, Norman Pershing New York City
 B.S., College of the City of New York, 1938
 Tolvin, Ira Brooklyn, N. Y.
 A.B., New York University, 1937
 A.M., New York University, 1939
 Topolsky, Jack Murray Brooklyn, N. Y.
 A.B., Kansas, 1938
 Weber, Robert Farer New York City
 A.B., Columbia, 1938
 Weinreb, Julius New York City
 B.S., College of the City of New York, 1938
 Weston, Lawrence Abbott Brooklyn, N. Y.
 A.B., West Virginia, 1938
 Winter, Sidney Joseph New York City
 B.S., Dalhousie, 1938
 Wolfe, Joseph Lowell, Mass.
 B.S., Boston, 1938
 Zackheim, Lester Irving New York City
 A.B., Columbia, 1938

THIRD YEAR—CLASS OF 1943

Acquista, Charles Brooklyn, N. Y.
 B.S., St. John's (N. Y.), 1939
 Berman, Melvin Gilbert Staten Island, N. Y.
 A.B., New York University, 1939
 Bodkin, Francis Fisher Brooklyn, N. Y.
 A.B., Georgetown, 1935
 Columbia Medical School
 Brignole, Louis Frank Jackson Heights, N. Y.
 A.B., New York University, 1937
 Budowsky, Jack Brooklyn, N. Y.
 New York University
 Burke, Edmund William Brooklyn, N. Y.
 B.S., Fordham, 1939
 Colmer, George Arthur New York City
 B.S., Rutgers, 1939
 Coyle, James Gerard Hollis, N. Y.
 Fordham
 Cruson, Daniel John Bridgeport, Conn.
 B.S., Trinity (Conn.), 1939
 Diner, Harold Brooklyn, N. Y.
 New York University
 Di Stasi, Samuel Michael Forest Hills, N. Y.
 A.B., New York University, 1939
 Dittmar, Adolph Gustav, Jr. Richmond Hill, N. Y.
 A.B., Hobart, 1936
 A.M., Columbia, 1939
 Dragiff, David Abraham Brooklyn, N. Y.
 B.S., College of the City of New York, 1939
 Engel, Albert King Jersey City, N. J.
 A.B., Columbia, 1939
 Feldman, Alvin Jonathan New York City
 A.B., Pennsylvania, 1939
 Goldsmith, Milton Brooklyn, N. Y.
 B.S., College of the City of New York, 1935
 Gordon, Emanuel J. New York City
 B.S., College of the City of New York, 1939

Gordon, Naomi Coval (Mrs.)	Brooklyn, N. Y.	Yellin, Jacob Louis	New York City
A.B., New York University, 1939		A.B., Johns Hopkins, 1938	
Gottlieb, Eugene	New York City	Zulch, Frederick Raymond	White Plains, N. Y.
A.B., Columbia, 1939		A.B., Brown, 1939	
Gottsegen, Robert	New York City		
A.B., Michigan, 1939			
Hall, Charles Mervin	Oakhurst, N. J.		
New York University			
Hersey, Glenwood Irving	Beverly, Mass.		
A.B., Columbia, 1938			
Columbia Medical School			
Hindels, George	New York City		
Vereins-Realgymnasium (Vienna)			
University of Vienna			
Holocinski, Alfred Walter	Flushing, N. Y.		
College of the City of New York			
New York University			
Hopengarten, Sol	New York City		
A.B., New York University, 1939			
Jaffe, Alfred	Newport, R. I.		
Rhode Island State College			
Kaplan, Jacob Israel	Brooklyn, N. Y.		
A.B., New York University, 1938			
Karmiöl, Mortimer	New York City		
B.S., College of the City of New York, 1939			
Karp, Alfred	Jersey City, N. J.		
New York University			
Lometti, Guido Mario	New York City		
A.B., Fordham, 1939			
McCue, Matthew Cornelius	Elizabeth, N. J.		
B.S., Fordham, 1939			
McKeon, Charles James	New York City		
B.S., Manhattan, 1931			
Mandrachia, Stephen Vito	Brooklyn, N. Y.		
College of the City of New York			
St. John's (N. Y.)			
Markowitz, Joseph Robert	New York City		
A.B., New York University, 1939			
Medaglia, Joseph Mario	New York City		
B.S., College of the City of New York, 1938			
Menken, Norman	Jackson Heights, N. Y.		
New York University			
Mozzer, Raymond Richard	Manchester, Conn.		
B.S., Fordham, 1939			
ReKant, Joseph	Elmhurst, N. Y.		
A.B., Alabama, 1931			
A.M., Alabama, 1932			
B.S., Alabama, 1933			
M.D., Long Island College of Medicine, 1935			
Sarubbi, Joseph Felix	Yonkers, N. Y.		
B.S., Manhattan, 1939			
Schept, Chester	Union City, N. J.		
A.B., Washington and Lee, 1938			
Shesler, Laurence Frank	Yonkers, N. Y.		
A.B., Columbia, 1940			
Smith, Alexander Bryant	Glen Cove, N. Y.		
St. John's (N. Y.)			
Stern, John Paul	New York City		
A.B., Columbia, 1939			
Tascher, Paul Joseph	Brooklyn, N. Y.		
New York University			
Varteressian, Levon Antoine	Laurelton, N. Y.		
New York University			
Vierno, Joseph Daniel	New York City		
A.B., Brooklyn, 1939			
Vogel, Stanley William	New York City		
B.S., Columbia, 1939			
Wagreich, Paul	New York City		
B.S., College of the City of New York, 1939			
Wellward, Robert Russell	New York City		
B.S., New York University, 1939			
Westover, Warren Osmer	Brooklyn, N. Y.		
A.B., Columbia, 1940			
Wolfgram, Robert Sutter	Jamaica, N. Y.		
B.S., St. Peter's (N. J.), 1938			
Long Island College of Medicine			
Yates, John Berchmans	Brooklyn, N. Y.		
A.B., Holy Cross, 1939			
Bell, Harold Malcolm	Bridgeport, Conn.		
B.S., Yale, 1939			
Berck, Leo	New York City		
College of the City of New York			
Bevilacqua, Thomas Joseph	Brooklyn, N. Y.		
A.B., Columbia, 1939			
Bongiorno, Alfred Michael	Brooklyn, N. Y.		
A.B., Columbia, 1939			
Brzustowicz, Stanislaw Henry	Brooklyn, N. Y.		
B.S., St. John's (N. Y.), 1940			
Buchsbaum, Robert Bernard	North Bergen, N. J.		
A.B., College of the City of New York, 1940			
Bushel, Arthur	Brooklyn, N. Y.		
A.B., Brooklyn, 1940			
Calabiano, Henry Ignazio	Brooklyn, N. Y.		
New York University			
Carlucci, Joseph Patrick	New York City		
B.S., Notre Dame, 1940			
Catalano, Philip Patrick	Brooklyn, N. Y.		
B.S., St. John's (N. Y.), 1940			
Corcoran, John William	Central Islip, N. Y.		
A.B., Columbia, 1940			
Daglian, Kourken Arshag	New York City		
B.S., College of the City of New York, 1941			
Devlin, Francis Patrick	Jersey City, N. J.		
B.S., St. Peter's (N. J.), 1940			
Fiasconaro, Joseph Eugene	Corona, N. Y.		
B.S., College of the City of New York, 1940			
Flashner, Jesse	New York City		
A.B., New York University, 1940			
Friedman, Irving	Brooklyn, N. Y.		
New York University			
Georgiade, Nicholas George	Jamaica, N. Y.		
Fordham			
Gutcho, Sanford Joseph	Brooklyn, N. Y.		
A.B., New York University, 1939			
Heidenreich, Irwin Paul	New York City		
New York University			
Hirschfeld, Leonard Saul	New York City		
A.B., Columbia, 1941			
Isaacson, Alfred Elliot	Brooklyn, N. Y.		
New York University			
Lifton, Simon Louis	Long Island City, N. Y.		
A.B., Columbia, 1939			
Link, Nathan Harold	Bradenton, Fla.		
B.S., Bowling Green Business University, 1938			
Lipson, Louis	Staten Island, N. Y.		
B.S., Columbia, 1939			
Malgieri, Anthony Mario	White Plains, N. Y.		
B.S., Fordham, 1940			
Massin, Murray Aaron	New York City		
A.B., Michigan, 1940			
May, Edward Joseph	Brooklyn, N. Y.		
A.B., Columbia, 1941			
Mendelson, Max	New York City		
A.B., Brooklyn, 1940			
Miller, William John	Woodside, N. Y.		
A.B., New York University, 1940			
Mondshine, Stanley	Brooklyn, N. Y.		
A.B., New York University, 1940			
Mostofsky, Paul	Brooklyn, N. Y.		
B.S., College of the City of New York, 1940			
Mufson, Abraham Isaac	New York City		
B.S., New York University, 1938			
Nahoum, Henry Isaac	Brooklyn, N. Y.		
A.B., Brooklyn, 1940			
Natelson, Estelle Marion	Brooklyn, N. Y.		
New York University			

SECOND YEAR—CLASS OF 1944

Nief, Stanley Frederick A.B., Cornell, 1940	Teaneck, N. J.	Gordon, Jacob Brooklyn	Brooklyn, N. Y.
Norian, Henry Karop B.S., Trinity (Conn.), 1941	Thompsonville, Conn.	Gormley, Eugene Joseph B.S., Manhattan, 1940	New York City
Piper, Albert Omar B.S., Colby, 1936	Kew Gardens, N. Y.	Greene, George William, Jr. B.S., Notre Dame, 1941	Brooklyn, N. Y.
McGill Medical School		Herlands, Robert Edward A.B., Columbia, 1941	New York City
Plotnick, Samuel A.B., Columbia, 1940	New York City	Holliday, Paul Houghton B.S., Bowdoin, 1941	Bronxville, N. Y.
Reilly, John Temple B.S., Fordham, 1940	St. Albans, N. Y.	Hrubar, George Martin B.S., Mt. St. Mary's, 1940	Woodside, N. Y.
Rifkin, Meyer New York University	Yonkers, N. Y.	Hyatt, John Wesley A.B., Columbia, 1940	Short Hills, N. J.
Schneer, Richard Moses A.B., Virginia, 1940	Far Rockaway, N. Y.	Keneally, Francis Joseph A.B., Fordham, 1940	New York City
Senderowitz, Samuel A.B., New York University, 1939	Brooklyn, N. Y.	Kornbluh, Fred A.B., New York University, 1941	New York City
Shatt, Boaz A.B., Columbia, 1940	Kingston, N. Y.	Kurzius, George A.B., New York University, 1941	Brooklyn, N. Y.
Shpuntoff, Harry B.S., College of the City of New York, 1939	New York City	Lackey, Leon Agee A.B., Berea, 1941	Kimball, W. Va.
Smith, David Joseph New York University	Brooklyn, N. Y.	Lavori, William Philip B.S., College of the City of New York, 1941	New York City
Soraci, Frank Nicholas B.S., Manhattan, 1940	Yonkers, N. Y.	Leonard, William Francis Oberlin	Pelham, N. Y.
Taggard, Joseph Franklin, Jr. B.S., Manhattan, 1939	New York City	Levinson, Stanley Bernard A.B., New York University, 1940	Brooklyn, N. Y.
Cornell Medical School		McKeon, Raymond Xavier B.S., Manhattan, 1939	New York City
Tannenbaum, David B.S., College of the City of New York, 1934	New York City	Mandelbaum, Edward Joshua A.B., Columbia, 1941	New York City
Urbano, Armand Paul B.S., Manhattan, 1939	New York City	Mandelberg, Philip A.B., New York University, 1941	Brooklyn, N. Y.
Vigersky, Harold St. Peter's (N. J.)	Jersey City, N. J.	Monahan, Leonard John B.S., Manhattan, 1940	New York City
Weiss, Lawrence Abraham A.B., New York University, 1939	New York City	Morris, Robert Irving A.B., Maine, 1941	Bangor, Maine
Wesolowski, Vincent Thomas St. John's (N. Y.)	Brooklyn, N. Y.	Muccia, Daniel Arthur A.B., Columbia, 1941	New York City
Zane, Jerome Arthur New York University	New York City	Nesse, Gerald Jack A.B., New York University, 1940	New York City
		M.S., New York University, 1941	
		Orfanos, George Peter *Senior in Columbia	Long Island City, N. Y.
		Quast, William Wentworth, Jr. *Senior in Columbia	West Hempstead, N. Y.
		Rawitt, Eugene B.S., St. Peter's Col. (N. J.), 1938	Jersey City, N. J.
		A.M., New York University, 1939	
		Rendich, Henry Joseph, Jr. Rockville Centre, N. Y.	
		B.S., St. Peter's Col. (N. J.), 1940	
		Rogers, Jerome Alan B.S., College of the City of New York, 1941	New York City
		Sall, Hymie David A.B., Syracuse, 1940	Syracuse, N. Y.
		Salzman, Leonard B.S., College of the City of New York, 1941	New York City
		Schreiner, John McCoy A.B., Yale, 1941	Crestwood, N. Y.
		Sirna, Lawrence Edward B.S., St. John's (N. Y.), 1941	New York City
		Slusky, Melvin A.B., New York University, 1941	Brooklyn, N. Y.
		Smith, George Allen, Jr. Columbia	Port Chester, N. Y.
		Sweeney, James Russel A.B., Columbia, 1931	New York City
		Thoma, Robert Frank Pennsylvania	Lynbrook, N. Y.
		New York University	

* Undergraduate students in Columbia University exercising professional option in the School of Dental and Oral Surgery.

Wasserman, Bernard H.
A.B., Brooklyn, 1941
Weiss, George Arthur
A.B., Brooklyn, 1941

Brooklyn, N. Y.
Brooklyn, N. Y.

McCreary, Clare Frederick
D.D.S., Ohio State, 1940
Pearlman, Lawrence
D.M.D., Tufts, 1940
Santeramo, John Raymond
B.S., St. John's (N. Y.), 1937
D.D.S., Maryland, 1941
Schudy, Fred Frank
Ava, Mo.
D.D.S., Washington University (Mo.), 1932
Sexauer, Paul Christian
New York City
B.S., Long Island, 1938
D.D.S., Columbia, 1940
Sturtevant, Robert Clarence
Jamaica, N. Y.
D.D.S., Washington University (Mo.), 1939
D.D.S., Pittsburgh, 1941
Virkler, Lyndon Mark
Castorland, N. Y.
A.B., Cornell, 1937
D.M.D., Harvard, 1941
Wolf, Bernard, Jr.
Elizabeth, N. J.
D.D.S., Pennsylvania, 1930

POSTGRADUATE STUDENTS
CANDIDATES FOR THE CERTIFICATE OF
PROFICIENCY

Orthodontics

Asarian, Sherman
Queens Village, N. Y.
D.D.S., New York University, 1928
Bien, Saul M.
New York City
A.B., New York University, 1934
D.D.S., Columbia, 1937
Brown, Edwin Alvin
Bangor, Maine
D.D.S., Dalhousie, 1941
Burr, John Donald
Yonkers, N. Y.
D.D.S., Pennsylvania, 1939
Frank, Barnett
Cleveland, Ohio
A.B., Western Reserve, 1936
D.D.S., Western Reserve, 1940
Haggerty, Warren Dunning, Jr.
Ridgewood, N. J.
D.D.S., Maryland, 1941
Handler, A. Allan
New York City
B.S., New York University, 1933
D.D.S., Columbia, 1937
Hunsucker, Hugh Melvin
High Point, N. C.
D.D.S., Atlanta-Southern, 1940
Jay, James
New York City
D.D.S., Pennsylvania, 1940
Kohn, Sidney Irving
North Bergen, N. J.
D.D.S., Atlanta-Southern, 1935
Larson, Carroll Marvin
Brooklyn, N. Y.
D.D.S., Pennsylvania, 1930

SPECIAL STUDENT

Clinical Practice

Molnar, Ladislaus
New York City
M.D., Royal University (Hungary), 1913

SUMMARY

Fourth Year—Class of 1942.....	48
Third Year—Class of 1943.....	54
Second Year—Class of 1944.....	53
First Year—Class of 1945.....	51
Candidates for the certificate of proficiency..	19
Special postgraduate students.....	1
Total.....	226

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for the year 1942-1943 may be obtained from the Secretary of the University.

1942

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SUMMER SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee.

July 3 Friday, and July 6, Monday. For undergraduate dental students.

July 7 Tuesday. Classes begin for all undergraduate dental students.
August 31 Monday, to September 7, Monday, inclusive. Vacation.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee.

September 14 Monday, to September 16, Wednesday. For all undergraduate dental students.

October 5 Monday, and October 6, Tuesday. For candidates for the certificate of proficiency

September 21 Monday. Second period begins for sophomores, juniors, and seniors.
October 7 Wednesday. Classes begin for candidates for the certificate of proficiency.

October 19 Monday. Second period begins for freshmen.

November 26 Thursday. Thanksgiving. Holiday.

November 30 Monday. Third period begins for sophomores, juniors, and seniors.

December 11 Friday. Third period begins for freshmen.

December 25 Friday, to

1943

January 10 Sunday, inclusive. Christmas holidays.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SPRING SESSION

The privilege of registration after the period specified may be granted on payment of a late registration fee.

January 11 Monday, to January 16, Saturday. For undergraduate dental students.

April 5 Monday, and April 6, Tuesday. For candidates for the certificate of proficiency.

1943

- February 1 Monday. Last day for filing applications or renewal of application for the degree of D.D.S. or for the certificate to be conferred in June. The privilege of later application may be granted on payment of a late fee.
- February 12 Friday. Alumni Day. Not a University holiday.
- March 6 Saturday. Classes end for all undergraduate dental students.
- March 8 Monday, to March 13, Saturday, inclusive. Final examinations.
- March 19 Friday, and March 20, Saturday. Registration for incoming freshmen class.
- March 22 Monday. Classes begin for all undergraduate dental students.
- April 7 Wednesday. Classes begin for candidates for the certificate of proficiency.
- April 18 Sunday, to April 25, Sunday, inclusive. Easter holidays.
- July 12 Monday, to August 22, Sunday, inclusive. Vacation.

1942													1943												
JULY													JANUARY												
S	M	T	W	T	F	S							S	M	T	W	T	F	S						
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12	13	14	15	16	17	18							10	11	12	13	14	15	16						
19	20	21	22	23	24	25							17	18	19	20	21	22	23						
26	27	28	29	30	31							24	25	26	27	28	29	30						
.....							31						
AUGUST													FEBRUARY												
S	M	T	W	T	F	S							S	M	T	W	T	F	S						
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9	10	11	12	13	14	15							14	15	16	17	18	19	20						
16	17	18	19	20	21	22							21	22	23	24	25	26	27						
23	24	25	26	27	28	29							28						
30	31							31						
SEPTEMBER													MARCH												
S	M	T	W	T	F	S							S	M	T	W	T	F	S						
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6	7	8	9	10	11	12							7	8	9	10	11	12	13						
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20	21	22	23	24	25	26							21	22	23	24	25	26	27						
27	28	29	30							28	29	30	31						
OCTOBER													APRIL												
S	M	T	W	T	F	S							S	M	T	W	T	F	S						
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11	12	13	14	15	16	17							11	12	13	14	15	16	17						
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Columbia University

BULLETIN OF INFORMATION

Forty-third Series, No. 16

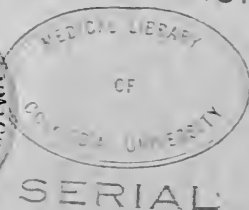
April 3, 1943

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1943-1944

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630 WEST 168TH STREET
NEW YORK

Columbia University Bulletin of Information

Forty-third Series, No. 16

April 3, 1943

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These include the Report of the President to the Trustees, and the Announcements of the several Colleges and Schools, and of certain Divisions, relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 7,200—1943

COMMUNICATIONS

All communications regarding the School of Dental and Oral Surgery, application for admission, and appointments for personal interviews should be addressed to the School of Dental and Oral Surgery, 630 West 168th Street; telephone Wadsworth 3-2500.

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Columbia University

in the City of New York

ANNOUNCEMENT OF THE

SCHOOL OF DENTAL AND ORAL SURGERY

1943-1944



630 WEST 168TH STREET
NEW YORK

THE SCHOOL OF DENTAL AND ORAL SURGERY

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SAMUEL R. DETWILER	HAROLD J. LEONARD
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WILLIAM B. DUNNING	WILLARD C. RAPPLEYE
MAGNUS I. GREGERSEN	LEUMAN M. WAUGH
LEROY L. HARTMAN	DANIEL E. ZISKIN

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A.B., Columbia, 1920; M.D., 1923.
VIRGINIA APGAR *Assistant Professor of Anesthesia*
A.B., Mt. Holyoke, 1929; M.D., Columbia, 1933.
Attending Anesthetist, Presbyterian, Sloane, Babies, and Triboro Hospitals, and Vanderbilt Clinic; Assistant Attending Anesthetist, Welfare Hospital.
EDMUND APPLEBAUM *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1922. [Oral Anatomy]
HENRY ULYSSES BARBER, JR. *Assistant Professor of Dentistry*
D.D.S., Pennsylvania, 1916. [Orthodontics]
HENRY ARTHUR BARTELS *Assistant Professor of Dentistry*
B.S., Rhode Island State, 1917; B.S., Columbia, 1925; D.D.S., 1927. [Oral Pathology]
Assistant Bacteriologist, Division of Laboratories and Research, State Department of Health; Attending Dental Surgeon, Bryson Day Nursery.
ADOLPH BERGER *William Carr Professor of Oral Surgery*
D.D.S., New York College of Dentistry, 1909.
Oral Surgeon, Beth Israel Hospital, Hospital for Joint Diseases; Attending Dental Surgeon, Presbyterian Hospital.
FRANK E. BEUBE *Assistant Professor of Dentistry*
L.D.S., D.D.S., Toronto, 1930. [Periodontology]
Assisting Attending Dental Surgeon, Presbyterian Hospital.
¹SAMUEL BIRENBACH *Assistant Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Surgery]
Visiting Oral Surgeon, Morrisania Hospital; Associate Oral Surgeon, Beth Israel Hospital; Attending Oral Surgeon, St. John's Hospital.

¹ On leave 1943-1944.

- CHARLES FRANCIS BODECKER *Professor of Dentistry*
D.D.S., Buffalo, 1900. [Oral Histology]
- RICHARD M. BRICKNER *Assistant Professor of Clinical Neurology*
B.S., Columbia, 1921; M.D., 1923.
- LESTER RICHARD CAIN *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1917. [Oral Pathology]
Associate Attending Dental Surgeon, Presbyterian Hospital.
- GEORGE S. CALLAWAY *Associate Professor of Dentistry*
D.D.S., Pennsylvania, 1923. [Orthodontics]
- HANS THACHER CLARKE *Professor of Biochemistry*
B.Sc., London, 1908; D.Sc., 1913.
- KENNETH STEWART COLE *Associate Professor of Physiology*
A.B., Oberlin, 1922; Ph.D., Cornell, 1926.
- WILFRED MONROE COPENHAVER *Associate Professor of Anatomy*
A.B., Western Maryland, 1921; Ph.D., Yale, 1925.
- HOWARD JAMES CURTIS *Assistant Professor of Physiology*
B.S., Michigan, 1928; A.M., Swarthmore, 1929; Ph.D., Yale, 1932.
- SAMUEL RANDALL DETWILER *Professor of Anatomy*
Ph.B., Yale, 1914; A.M., 1916; Ph.D., 1918; M.S., 1931.
- MOSES DIAMOND *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1914. [Oral Anatomy]
Consultant in Dentistry, Hawthorne Institute.
- ALPHONSE RAYMOND DOCHIEZ *John E. Borne Professor of Medical and Surgical Research*
A.B., Johns Hopkins, 1903; M.D., 1907; Sc.D., New York University, 1925; Yale, 1926; Western Reserve, 1931.
- HENRY SAGE DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1904; M.D., Columbia, 1911; [Oral Surgery]
B.S., New York University, 1915.
Attending Oral Surgeon, Manhattan Eye, Ear, and Throat, Presbyterian, Sloane, and Babies Hospitals, and Vanderbilt Clinic; Consulting Maxillofacial Surgeon, Jersey City Medical Center; Consulting Oral Surgeon, Knickerbocker, Nassau, New York Foundling, Roosevelt, St. Vincent's, St. Luke's, Mary Immaculate, Jamaica, Norwalk, State Reconstruction, West Haverstraw, Greenwich, Stamford, United Port Chester, North Hudson, Meadowbrook, and Hackensack General Hospitals, Hospital for Ruptured and Crippled, National Hospital for Speech Disorders, and Vassar Brothers Hospital, Poughkeepsie.
- WILLIAM BAILEY DUNNING *Professor of Dentistry*
D.D.S., New York College of Dentistry, 1895. [Theory and Practice]
Director of the Department of Dentistry, New York Orthopaedic Dispensary and Hospital.
- BION R. EAST *Assistant Professor of Public Health Practice*
D.D.S., Michigan, 1908.
- JOSEPH D. EBY *Assistant Professor of Dentistry*
D.D.S., Southern Dental College (Atlanta), 1908. [Prosthetics]
- ADOLPH ELWYN *Associate Professor of Neuroanatomy*
B.S., Columbia, 1915; A.M., 1917.
- EARL THERON ENGLE *Professor of Anatomy*
A.B., Nebraska Wesleyan, 1920; A.M., Colorado, 1924; Ph.D., Stanford, 1925.
- JOHN WILLIAM FERTIG *Professor of Biostatistics*
A.B., Ursinus, 1931; Ph.D., Minnesota, 1935.
- FREDERICK BONNER FLINN *Associate Professor of Industrial Hygiene*
A.B., Johns Hopkins, 1900; Ph.D., Columbia, 1923.

- MAGNUS INGSTRUP GREGERSEN *Professor of Physiology*
A.B., Stanford, 1923; A.M., 1924; Ph.D., Harvard, 1930.
- LEROY LEO HARTMAN *Professor of Dentistry*
D.D.S., Northwestern, 1913; Sc.D., 1936.
[Operative]
Attending Dental Surgeon, Presbyterian Hospital.
- MILO HELLMAN *Professor of Dentistry*
[Orthodontic Research]
D.D.S., Pennsylvania, 1905; Sc.D., 1933; Sc.D., Witwatersrand, 1938.
- ISADOR HIRSCHFELD *Associate Professor of Dentistry*
D.D.S., New York College of Dentistry, 1902.
[Periodontology]
Chief, Periodontia Department, Beth Israel Hospital; Attending Dental Surgeon, Presbyterian Hospital; Associate Oral and Dental Surgeon, New York Hospital for Joint Diseases.
- HOUGHTON HOLLIDAY *Associate Dean and Professor of Dentistry*
A.B., Minnesota, 1915; D.D.S., 1917.
[Radiology]
Attending Dental Surgeon, Presbyterian Hospital.
- JOSEPH HENRY HOLMES *Assistant Professor of Physiology*
A.B., Amherst, 1930; M.D., Western Reserve, 1934; Med.Sc.D., Columbia, 1941.
- EARLE BANKS HOYT *Professor of Dentistry*
D.D.S., Pennsylvania, 1918.
[Prosthetics]
- ANNA VERONICA HUGHES *Professor of Dentistry*
D.M.D., Tufts, 1909.
[Courses for Dental Hygienists]
Director of Courses for Dental Hygienists.
- JAMES WESLEY JOBLING *Delafield Professor of Pathology*
M.D., Tennessee Medical, 1896.
Director and Attending Pathologist, Presbyterian Hospital; Consulting Pathologist, Sloane Hospital.
- CLAUS W. JUNGEBLUT *Professor of Bacteriology*
M.D., Berne, 1921.
- MAXWELL KARSHAN *Associate Professor of Biochemistry*
B.S., College of the City of New York, 1917; A.M., Columbia, 1920; Ph.D., 1925.
- BARRY GRIFFITH KING *Assistant Professor of Physiology*
A.B., California, 1924; A.M., 1925; Ph.D., Columbia, 1934.
- WILLIAM LEFKOWITZ *Assistant Professor of Dentistry*
D.D.S., Columbia, 1924.
[Oral Histology]
- HAROLD JUDSON LEONARD *Professor of Dentistry*
D.D.S., Minnesota, 1912; A.B., 1915.
[Periodontology]
Attending Dental Surgeon, Presbyterian Hospital.
- NOLAN DON CARPENTIER LEWIS *Professor of Psychiatry*
M.D., Maryland, 1914.
Director, Psychiatric Institute and Hospital; Director and Attending Psychiatrist, Vanderbilt Clinic; Consultant in Psychiatry, Presbyterian Hospital.
- CHARLES CHRISTIAN LIEB *Hosack Professor of Pharmacology*
A.B., Columbia, 1902; M.D., 1906.
Consultant in Pharmacology, Mount Sinai Hospital.
- GEORGE FRANK LINDIG *Assistant Professor of Dentistry*
D.D.S., Minnesota, 1924.
[Operative]
- EWING CLEVELAND McBEATH *Professor of Dentistry*
D.D.S., Minnesota, 1910; B.S., 1919; B.M., 1920; M.D., 1921.
[Pedodontics]

¹ On leave 1943-1944.

- FRANCIS STEPHEN McCAFFREY *Associate Professor of Dentistry*
 B.S., Fordham, 1911; D.D.S., New York College of Dentistry, 1915. [Oral Surgery]
 Visiting Oral Surgeon, St. Vincent's Hospital; Visiting Dental Surgeon,
 Fordham Hospital; Attending Dental Surgeon, Presbyterian Hospital; Consulting Oral Surgeon,
 Manhattan State Hospital, and St. Joseph's Hospital, Yonkers, N. Y.
- MORELL DION McKENZIE *Assistant Professor of Dentistry*
 D.D.S., Minnesota, 1917. [Prosthetics]
- DONALD JOHN W. McLAUGHLIN *Associate Professor of Dentistry*
 D.D.S., Minnesota, 1926. [Prosthetics]
- MILTON ROBERT MILLER *Assistant Professor of Dentistry*
 B.S., Columbia, 1928; D.D.S., 1930. [Operative]
 Attending Dental Surgeon, Unity Hospital.
- MICHAEL G. MULINOS *Associate Professor of Pharmacology*
 A.B., Columbia, 1921; A.M., 1922; M.D., 1924; Ph.D., 1929.
- EDWARD GERALD MURPHY *Assistant Professor of Dentistry*
 D.D.S., Michigan, 1924. [Orthodontics]
- HARRY STOLL MUSTARD *Professor of Public Health Practice and*
Director of the DeLamar Institute of Public Health
 M.D., Medical College of South Carolina, 1911; B.S., College of Charleston, 1914; L.L.D.,
 1938.
- JOHN LESTER NICKERSON *Assistant Professor of Physiology*
 B.A., Dalhousie, 1925; M.A., 1928; Ph.D., Princeton, 1934.
- NATHANIEL A. OLINGER *Assistant Professor of Dentistry*
 B.S., Lincoln-Jefferson (Ind.), 1907; D.Sc., 1921; D.D.S., Pennsylvania, 1910. [Prosthetics]
 Consultant and Oral Surgeon, Essex County Hospital, Verona, N. J.
- CARL REUBEN OMAN *Associate Professor of Dentistry*
 D.D.S., Minnesota, 1914. [Operative]
- DOUGLAS BURNETT PARKER *Associate Professor of Dentistry*
 M.D., Long Island, 1912; D.D.S., Pennsylvania, 1914. [Oral Surgery]
 Attending Oral Surgeon, City Hospital; Assistant Attending Oral Surgeon,
 Babies Hospital and Vanderbilt Clinic; Consultant in Oral Surgery, Swedish, Vassar, U. S. Vet-
 erans', and Grasslands Hospitals; Consulting Oral Surgeon, Yonkers General Hospital and Law-
 rence Hospital, Bronxville.
- EARLE BERNARD PHELPS *Professor of Sanitary Science*
 B.S., Massachusetts Institute of Technology, 1899.
- JOHN FRANKLIN RALSTON *Assistant Professor of Dentistry*
 D.D.S., Marion Sims Dental College, 1903. [Prosthetics]
 Assisting Attending Dental Surgeon, Presbyterian Hospital.
- WILLARD COLE RAPPLEYE *Dean and Professor of Medical Economics*
 A.B., Illinois, 1915; M.D., Harvard, 1918; A.M., Yale, 1922; Sc.D., Trinity (Conn.), 1939.
 Dean, College of Physicians and Surgeons; Director, New York Post-Graduate Medical School.
- WILLIAM MITCHELL ROGERS *Assistant Professor of Anatomy*
 B.S., Georgia, 1921; Ph.D., Cornell, 1927.
- WALTER STANTON ROOT *Associate Professor of Physiology*
 B.S., Wesleyan, 1924; Ph.D., Pennsylvania, 1930.
- THEODOR ROSEBURY *Assistant Professor of Bacteriology*
 D.D.S., Pennsylvania, 1928.
- SOLOMON NATHAN ROSENSTEIN *Assistant Professor of Dentistry*
 B.S., College of the City of New York, 1929; D.D.S., Columbia, 1930. [Pedodontics]

- JOSEPH SCHROFF *Associate Professor of Dentistry*
 B.S., College of the City of New York, 1909; M.D., Columbia, 1920; [Oral Surgery]
 D.D.S., 1922.
 Associate Dentist, Mount Sinai Hospital; Attending Oral Surgeon, Jewish Memorial Hospital;
 Associate Attending Dental Surgeon, Presbyterian Hospital.
- AURA EDWARD SEVERINGHAUS *Associate Professor of Anatomy*
 B.S., Columbia, 1916; A.M., 1920; Ph.D., 1929.
 Assistant Dean, College of Physicians and Surgeons.
- HARRY H. SHAPIRO *Assistant Professor of Anatomy*
 D.M.D., Tufts, 1918.
- GEORGE K. SMELSER *Assistant Professor of Anatomy*
 A.B., Earlham, 1929; Ph.D., Chicago, 1932.
- GILBERT PERCIVAL SMITH *Assistant Professor of Dentistry*
 D.D.S., Minnesota, 1927. [Prosthetics]
- PHILIP EDWARD SMITH *Professor of Anatomy*
 B.S., Pomona, 1908; M.S., Cornell, 1910; Ph.D., 1912.
- EDITH E. SPROUL *Assistant Professor of Pathology*
 M.D., Columbia, 1931.
 Assistant Attending Pathologist, Presbyterian Hospital.
- LEWIS RIDDELL STOWE *Associate Professor of Dentistry*
 D.D.S., Minnesota, 1916. [Pedodontics]
 Associate Attending Dental Surgeon, Presbyterian and Babies Hospitals;
 Consultant in Dental and Oral Surgery, Neurological Institute.
- ARTHUR CRANSTON TOTTEN *Assistant Professor of Dentistry*
 D.D.S., Pennsylvania, 1926. [Orthodontics]
- LEUMAN MAURICE WAUGH *Professor of Dentistry*
 D.D.S., Buffalo, 1900. [Orthodontics]
 Consultant in Orthodontics, New York Infirmary for Women and Children.
- HARRY ALLEN YOUNG *Associate Professor of Dentistry*
 D.D.S., Indiana, 1919. [Prosthetics]
- EDWARD VICTOR ZEGARELLI *Assistant Professor of Dentistry*
 A.B., Columbia, 1934; D.D.S., 1937; M.S., Chicago, 1942. [Diagnosis]
- DANIEL E. ZISKIN *Associate Professor of Dentistry*
 D.D.S., Minnesota, 1917. [Diagnosis]
 Associate Attending Dental Surgeon, Presbyterian Hospital.
-
- HOWARD T. APPLEGATE, D.D.S. *Assistant in Dentistry*
 Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]
- HERBERT DELBERT AYERS, JR., A.B., D.D.S. *Instructor in Dentistry*
 Assistant Visiting Oral Surgeon, Queens General Hospital. [Dental Materials]
- WILLIAM WELLS BAADÉ, D.D.S. *Assistant in Dentistry*
 Assisting Attending Dental Surgeon, Presbyterian Hospital. [Hospital Dentistry]
- CARLISLE C. BASTIAN, D.D.S. *Special Lecturer in Dentistry*
 [Prosthetics]
- WALTER REGINALD BEAVEN, D.D.S. *Instructor in Pharmacology*
- ¹EDWARD BECKER, D.M.D. *Assistant in Dentistry*
 [Oral Surgery]

¹ On leave 1943-1944.

- OSCAR EDWARD BEDER, B.S., D.D.S. *Instructor in Dentistry*
Assistant Dental Surgeon, Memorial Hospital. [Prosthetics]
- JAMES WILLIAM BELLOW, D.D.S. *Assistant in Dentistry*
[Operative]
- NORMAN WINGATE BOYD, B.S., D.D.S. *Instructor in Dentistry*
[Prosthetics]
- ¹RICHARD GREGORY CARSON, B.S., D.D.S. *Assistant in Dentistry*
[Operative]
- KENNETH FULTON CHASE, D.M.D. *Instructor in Dentistry*
Assisting Attending Dental Surgeon, Presbyterian Hospital; Consulting
Dental Surgeon, New York Eye and Ear Infirmary; Clinical Assistant,
Roosevelt Hospital. [Oral Surgery]
- ADA R. CLARK, Ph.D. *Instructor in Bacteriology*
- J. FRANCES COBBAN, R.N. *Special Lecturer in Dentistry*
[Courses for Dental Hygienists]
- ¹GERARD LOUIS COURTADE, A.B., D.D.S. *Assistant in Dentistry*
[Prosthetics]
- JOSEPH ANTHONY CUTTITA, M.S., D.D.S. *Assistant in Dentistry*
[Diagnosis]
- ¹ROBERT CYRIL DEVINE, B.S., D.D.S. *Instructor in Dentistry*
Resident Dentist, New York State Psychiatric Institute and Hospital. [Oral Surgery]
- ¹SOLOMON DISICK, B.S., M.D. *Instructor in Pharmacology*
- FREDERICK SCHULKEN DOSCHER, B.S., D.D.S. *Instructor in Dentistry*
[Oral Surgery]
- ¹MARIO A. FRANZONE, D.D.S. *Assistant in Dentistry*
[Oral Surgery]
- HERBERT PHILIP FRITZ, B.S., D.D.S. *Instructor in Dentistry*
[Operative]
- HARRY ALLEN GALTON, D.D.S. *Instructor in Dentistry*
[Orthodontics]
- BENJAMIN WILLIAM GLICK, A.M., M.D. *Instructor in Anatomy*
Adjunct Surgeon, City Hospital; Clinical Assistant in Surgery, Mount Sinai Hospital.
- ISIDORE HARRY GOLDBERGER, M.D. *Special Lecturer in Dentistry*
[Courses for Dental Hygienists]
Assistant Clinical Professor of Pediatrics, New York University and Bellevue Hospital Medical
College; Assistant Director of Health Education, Board of Education, New York City; Attending
Pediatrist, Willard Parker Hospital; Associate Attending Pediatrist, Home for Hebrew Infants;
Consulting Pediatrist, Morrisania General Hospital.
- EDWARD A. GRABER, M.D. *Assistant in Pathology*
- IRVING R. HARDY, D.M.D. *Special Lecturer in Dentistry*
[Prosthetics]
- ¹MAURICE JOHN HICKEY, D.M.D., M.D. *Instructor in Surgery*
- ROLAND W. HIPSLEY, A.B., M.D. *Instructor in Anatomy*
- ¹ROBERT HENRY HOFFMAN, D.D.S. *Instructor in Dentistry*
[Oral Anatomy]

¹ On leave 1943-1944.

- KATHERINE FLORENCE HOLLIS *Instructor in Dentistry*
[Courses for Dental Hygienists]
- MELVILLE HUMBERT, A.B., B.S., D.D.S. *Instructor in Pharmacology*
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[Operative]
- LEWIS EDWARD JACKSON, D.D.S. *Instructor in Dentistry*
[Orthodontics]
- WALTER JAMES JAGARD, A.B., D.D.S. *Assistant in Dentistry*
[Operative]
- HENRY R. JUNEMANN, A.B., D.D.S. *Instructor in Dentistry*
[Prosthetics]
- BENNETT M. LATHROP, B.S., D.D.S. *Assistant in Dentistry*
[Pedodontics]
- ¹JULIUS K. LITTMAN, M.D. *Instructor in Anatomy*
Assistant Adjunct in Surgery, Bronx Hospital.
- L. VOSBURGH LYONS, M.D. *Associate in Neurology*
Attending Neurologist, Neurological Institute, City Hospital, and Vanderbilt Clinic; Consulting
Neurologist, Englewood Hospital and State School for Boys, Warwick, N. Y.
- JOSEPH L. MCSWEENEY, D.D.S. *Assistant in Dentistry*
Visiting Dental Surgeon, St. Vincent's Hospital. [Oral Surgery]
- ESTHER MACULLA, A.M. *Instructor in Pharmacology*
- EMANUEL A. MANGINELLI, M.D. *Instructor in Neurology*
- GERARD WILLIAM MARCHAND, A.B., D.D.S. *Assistant in Dentistry*
[Prosthetics]
- GEORGE HENRY MARTIN, JR., A.B., D.D.S. *Assistant in Dentistry*
[Prosthetics]
- ¹ROBERT IRVING MASON, A.B., D.D.S. *Assistant in Dentistry*
[Operative]
- ARTHUR H. MERRITT, M.S., D.D.S., Sc.D. *Special Lecturer in Dentistry*
[Periodontology]
- HENRY MILCH, A.B., M.D. *Instructor in Anatomy*
Associate Attending Surgeon in Orthopedics, Hospital for Bone and Joint Diseases; Adjunct
Surgeon, Riverside Hospital.
- WILLIAM MILLER, B.S., D.D.S. *Assistant in Dentistry*
[Operative]
- LOIS COFFEY MOSSMAN, B.S., A.M., Ph.D. *Special Lecturer in Dentistry*
[Courses for Dental Hygienists]
- HARRY NEIVERT, M.D. *Instructor in Otolaryngology*
- FERDINAND G. NEUROHR, D.D.S. *Special Lecturer in Dentistry*
[Prosthetics]
- ROBERT W. NORTHROP, D.D.S. *Instructor in Dentistry*
Assisting Attending Dental Surgeon, Presbyterian Hospital. [Oral Surgery]
- ARMAND M. OPPENHEIMER, A.B., B.S., D.D.S. *Special Lecturer in Dentistry*
[Orthodontics]

¹ On leave 1943-1944.

ENID TRIBE OPPENHEIMER, B.Sc.	<i>Instructor in Physiology</i>
ELIZABETH E. PAINTER, Ph.D.	<i>Instructor in Physiology</i>
THEODORE R. PARKER, A.B., D.M.D.	<i>Instructor in Dentistry</i> [Oral Surgery]
DAVID POTTER, A.M.	<i>Special Lecturer in Dentistry</i> [Courses for Dental Hygienists]
VICTOR ROSS, Ph.D.	<i>Assistant in Biochemistry</i>
BENJAMIN SALZER, M.D.	<i>Instructor in Neurology</i>
LOUIS SCHORR, D.D.S.	<i>Special Lecturer in Dentistry</i> [Prosthetics]
ALBIN ROBERT SEIDEL, D.M.D.	<i>Instructor in Dentistry</i> Director of Dental Service and Attending Dental Surgeon, Presbyterian Hospital. [Oral Surgery]
NORMAN S. SIMMONS, B.S., D.M.D.	<i>Instructor in Dentistry</i> [Periodontology]
¹ ANTHONY SKARKA, D.D.S.	<i>Assistant in Dentistry</i> [Operative]
ALEXANDER BRYANT SMITH, D.D.S.	<i>Assistant in Dentistry</i> [Operative]
ELIAS L. STERN, B.S., M.D.	<i>Instructor in Anatomy</i> Adjunct Surgeon and Chief of Surgical Dispensary, Sydenham Hospital; Clinical Assistant Surgeon, Mount Sinai Dispensary.
MARJORIE ROLOFF STETTEN, B.S.	<i>Assistant in Biochemistry</i>
FERDINAND A. STEWART, JR., A.B., D.D.S.	<i>Instructor in Dentistry</i> [Oral Surgery]
¹ BARBARA B. STIMSON, A.B., M.D., Med.Sc.D.	<i>Associate in Surgery</i>
HERBERT C. STOERCK, M.D.	<i>Assistant in Pathology</i>
FRANCES AGNES STOLL	<i>Instructor in Dentistry</i> [Courses for Dental Hygienists]
SIDNEY H. STONE, B.S., D.D.S.	<i>Assistant in Pathology</i>
HARRY STRUSSER, D.D.S.	<i>Special Lecturer in Dentistry</i> [Courses for Dental Hygienists]
Chief of Dental Division, Department of Health, New York City.	
CHARLES TESAR, M.A.	<i>Assistant in Biochemistry</i>
BERNARD O. A. THOMAS, M.S., D.D.S.	<i>Instructor in Dentistry</i> [Oral Histology]
¹ ARTHUR SEYMOUR THOMAS, JR., A.B., D.D.S.	<i>Assistant in Dentistry</i> [Operative]
WILLIAM ANTHONY VERLIN, A.B., D.D.S.	<i>Assistant in Dentistry</i> [Pedodontics]
WILLIAM W. WALCOTT, A.B.	<i>Instructor in Physiology</i>
GENEVA HASTINGS WALLS	<i>Instructor in Dentistry</i> [Courses for Dental Hygienists]
SHIH CHUN WANG, B.S., M.D., Ph.D.	<i>Instructor in Physiology</i>
DONALD BYERS WAUGH, D.D.S.	<i>Instructor in Dentistry</i> [Orthodontics]

¹ On leave 1943-1944.

GLENN H. WHITSON, D.D.S.	<i>Assistant in Dentistry</i> [Orthodontics]
¹ WILLIAM CARL WOHLFARTH, JR., Ph.B., D.D.S.	<i>Assistant in Dentistry</i> [Prosthetics]
LEONA R. ZACHARIAS, Ph.D.	<i>Instructor in Anatomy</i>
HAROLD JACOB ZERR, A.B., D.D.S.	<i>Instructor in Dentistry</i> [Prosthetics]
MARJORIE B. ZUCKER, A.B.	<i>Instructor in Physiology</i>

CLINICAL ASSISTANTS

RALPH BECKER, B.S., D.D.S.	FREDERICK ROTHENBERG, D.D.S.
HARRY DARROW, D.D.S.	¹ WILLIAM JOSEPH SAVOY, B.S., D.D.S.
JOHN J. DOLCE, B.S., D.D.S.	HERBERT F. SILVERS, B.S., D.D.S.
SAMUEL R. DRELICH, D.D.S.	GEORGE STEIN, M.D., D.M.D.
¹ JOSEPH R. HORN, D.D.S.	HERBERT STOLLMACK, D.D.S.
JESSE L. LEFCOURT, B.S., D.D.S.	BENJAMIN TENENBAUM, B.S., D.D.S.
WILBUR PREZZANO, B.S., D.D.S.	LESTER A. WOLFSON, D.D.S.
¹ GUSTAVE REICH, D.D.S.	DAVID ZEISLER, D.D.S.

PRESBYTERIAN HOSPITAL DENTAL SERVICE

ALBIN R. SEIDEL, D.M.D., *Director*

Attending Dental Surgeons

ADOLPH BERGER, D.D.S.	HAROLD J. LEONARD, A.B., D.D.S.
LEROY L. HARTMAN, D.D.S., Sc.D.	FRANCIS S. McCAFFREY, B.S., D.D.S.
ISADOR HIRSCHFELD, D.D.S.	ALBIN R. SEIDEL, D.M.D.
HOUGHTON HOLLIDAY, A.B., D.D.S.	

Associate Attending Dental Surgeons

LESTER R. CAHN, D.D.S.	LEWIS R. STOWE, D.D.S.
JOSEPH SCHROFF, B.S., M.D., D.D.S.	DANIEL E. ZISKIN, D.D.S.

Assisting Attending Dental Surgeons

HOWARD T. APPLEGATE, D.D.S.	KENNETH F. CHASE, D.M.D.
WILLIAM W. BAADE, D.D.S.	ROBERT W. NORTHROP, D.D.S.
FRANK E. BEUBE, L.D.S., D.D.S.	JOHN F. RALSTON, D.D.S.

Interns

RALPH A. SLATER, D.M.D.	JOSEPH EVERETT BOOTH, B.S., D.D.S.
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PRESBYTERIAN HOSPITAL ORAL SURGERY SERVICE

HENRY S. DUNNING, B.S., M.D., D.D.S., *Attending Oral Surgeon*

COMMITTEES

Administration

Dean RAPPLEYE, *Chairman*, Professors BODECKER, H. S. DUNNING, HARTMAN, HOLLIDAY, HOYT, LEONARD, and WAUGH

¹ On leave 1943-1944.

Curriculum

Professor HOLLIDAY, *Chairman*, Professors BERGER, CAHN, HARTMAN,
HOYT, LEONARD, and LIEB

Library

Professor HOLLIDAY, *School of Dental and Oral Surgery Representative*

Extension and Graduate Courses

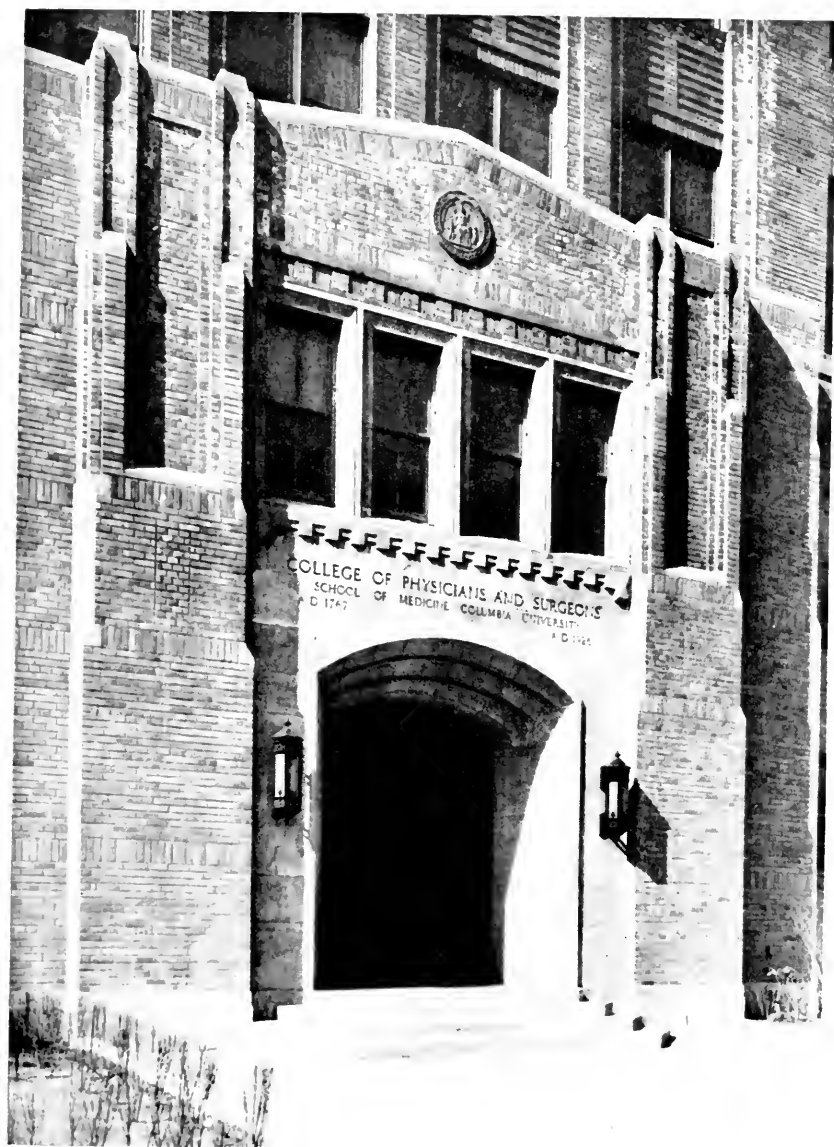
Professor WAUGH, *Chairman*, Professors BERGER and McBEATH

Research

Professor BODECKER, *Chairman*, Professors CAHN, KARSHAN,
McBEATH, H. SHAPIRO, and ZISKIN

UNIVERSITY OFFICERS OF ADMINISTRATION

FRANK D. FACKENTHAL, LL.D., Litt.D.	<i>Provost of the University</i>
HENRY M. SCHLEY, B.S.	<i>Comptroller</i>
PHILIP M. HAYDEN, A.M.	<i>Secretary of the University</i>
FRANK H. BOWLES, A.M.	<i>Director of University Admissions</i> (absent on leave)
L. CARRINGTON GOODRICH, Ph.D.	<i>Acting Director of University Admissions</i>
BERNARD P. IRELAND, A.M.	<i>Assistant Director of University Admissions</i>
JOSEPH M. MURPHY, A.M.	<i>Assistant Director of University Admissions</i>
CARL M. WHITE, Ph.D.	<i>Director of Libraries</i>
EDWARD J. GRANT, A.B.	<i>Registrar of the University</i>
W. EMERSON GENTZLER, A.M.	<i>Bursar of the University</i>
HENRY LEE NORRIS, M.E.	<i>Director of Buildings and Grounds</i>
FREDERICK MILLER, C.E.	<i>Assistant Director of Buildings and Grounds</i>
REV. STEPHEN FIELDING BAYNE, JR., S.T.M.	<i>Chaplain of the University</i>
EDWARD S. ELLIOTT, M.D.	<i>Director of Athletics</i>
BENJAMIN A. HUBBARD, Ph.B.	<i>Director of King's Crown Activities</i>
WILLIAM H. McCASTLINE, M.D.	<i>University Medical Officer</i>
THOMAS A. MCGOEY, M.S.	<i>Director of University Residence Halls</i>
ARTHUR E. MATZKE, A.B., B.S., C.E.	<i>Head of Men's Residence Halls</i>
MARGARET BARNARD PICKEL, Ph.D.	<i>Adviser to Women Graduate Students and</i> <i>Head of Johnson Hall</i>
ROBERT F. MOORE, A.B.	<i>Secretary of Appointments</i> (absent on leave)
MARY A. WEGENER	<i>Acting Secretary of Appointments</i>
CLARENCE E. LOVEJOY, A.M.	<i>Alumni Secretary</i>
THOMAS P. FLEMING, M.S.	<i>Medical Librarian</i>



ENTRANCE TO THE SCHOOL OF MEDICINE AND THE SCHOOL
OF DENTAL AND ORAL SURGERY

THE SCHOOL OF DENTAL AND ORAL SURGERY

Columbia University was founded in 1754 as King's College by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The Revolutionary War interrupted its active work, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

In September, 1916, students in dentistry were admitted to courses in Columbia University at the School of Medicine. On March 5, 1917, the Trustees of the University established a School of Dentistry as of September 27, 1916, and from that date the School became an integral part of the University. On March 1, 1920, the dental building adjacent to the School of Medicine and Vanderbilt Clinic was finished and assigned to the use of this school.

On July 1, 1923, the College of Dental and Oral Surgery of New York (organized in 1905) was merged with the School of Dentistry, and the combined institutions named the School of Dental and Oral Surgery of Columbia University. By this merger Columbia acquired two large buildings, at 302-306 East 35th Street and 309-315 East 34th Street, in which the School was housed up to the time of moving into the Medical Center.

In September, 1928, the School was moved to the Columbia University-Presbyterian Hospital Medical Center. The dental department of the School occupies the three upper floors of the Vanderbilt Clinic wing, given a net floor area of 40,000 square feet. The fundamental science subjects, which are given to both dental and medical students, are taught in the adjoining College of Physicians and Surgeons, the corridors of the two schools being continuous. In adjacent wings, the halls of which are also continuous with those of the School, the wards and out-patient departments of the Presbyterian and associated hospitals are located, thus giving the closest possible contact and association with all branches of health service. The Dental School clinic includes as one of its functions the dental care of the patients of the Medical Center hospitals.

It is the purpose of the Faculty to maintain dental education in this school on the same footing as that of other branches of health service. Three years of college work including certain specified subjects are required for admission, and of those who have fulfilled the requirements a careful selection is made on the basis of their fitness for the practice of dentistry. The course in dentistry covers four years leading to the degree of Doctor of Dental Surgery. The greater part of the first two years of the curriculum is taken in the fundamental science departments with students of the College of Physicians and Surgeons.

During the national emergency the School will be on an accelerated program which, without changing the content of the course, will permit the student to graduate in three calendar years. The plan now is, under the Army Specialized and the Navy Collegiate Training Programs, to enroll classes at nine-month intervals. Classes will begin their training in March, 1943, and January, 1944.

STUDENTS

After having received an admission permit the student may proceed to register, in the stated registration period (see Academic Calendar), for such prescribed or elective courses of instruction as are appropriate for his purposes. Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the appropriate authority for equitable relief.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserve power of the President, in the Dean of each faculty and the Director of the work of each Administrative Board.

GRADUATION

Commencement occurs in June, at which time all recipients of degrees awarded during the academic year are expected to attend the exercises unless excused. Diplomas are issued in June or at various times during the year. During the national emergency, it is planned to issue diplomas at periods of approximately nine months, as each class completes the requirements.

No degree will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter with the filing of a second application the regular fee is again payable—\$20 in the case of a degree and \$10 in the case of a certificate.

Dates for the filing of applications are given in the Academic Calendar at the end of this Announcement.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years will be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Dean. Students withdrawing must notify the Registrar immediately.

The Dean of the school or faculty concerned may, for reasons of weight, grant a leave of absence to a student in good standing.

ANNOUNCEMENTS

The Announcements of each college or school, of the Summer Session, of University Extension, and of the several divisions may be obtained without charge from the Secretary of the University.

Letters requesting more detailed information than is contained in this Announcement, and all correspondence regarding admission, should be addressed to the Dean, School of Dental and Oral Surgery, 630 West 168th Street.

LIBRARY

A combined medical-dental library with spacious reading room containing approximately 100,000 volumes and about 10,000 pamphlets occupies a part of three lower stories of the main administration building of the Medical Center. A trained library staff provides specialized services to meet the needs of students, interns, teachers, and research workers of the combined Medical School, Dental School, and Presbyterian Hospital Unit. The library has seating capacity for 250 readers.

The periodical room on the upper floor is especially equipped to foster and encourage research work. Here are received over 1,100 current journals, and near by are shelved files of reviewing, indexing, and abstracting services and a selection of the more important journals. All other journals are in the stacks. A special alcove contains the latest available literature relating to war medicine.

UNIVERSITY PRIVILEGES

As the School of Dental and Oral Surgery is an integral part of Columbia University, its students enjoy all the privileges and facilities open to members of other departments of the University. They may reside in the University Residence Halls at Morningside Heights and are eligible to membership in the various social and other organizations of the student body.

University Libraries. The Libraries on Morningside Heights are open to all students of dentistry, and books may be borrowed for home use. They include collections on anatomy, biochemistry, public health, nursing, and other subjects related to dentistry and supplement the special collections available in the College of Physicians and Surgeons and in the New York Academy of Medicine, Fifth Avenue at 103d Street. The library of the College of Pharmacy, 115 West 68th Street, is also open to students in the School of Dental and Oral Surgery.

University Gymnasium. The Gymnasium is situated on Morningside Heights and is open daily during the academic year, except on Sundays and legal holidays, from 9 a.m. to 7 p.m. on Tuesdays, Fridays, and Saturdays, and from 9 a.m. to 10 p.m. on Mondays, Wednesdays, and Thursdays. On all holidays it is open from 3 to 6 p.m. One or more of the instructors are on the floor at all times when the Gymnasium is open. Students of the School of Dental and Oral Surgery may enjoy its privileges and have the use of the Gymnasium and baths and a private locker. The student is entitled also to a physical examination by the University Medical Officer, who, on the basis of such an examination, will give advice as to the kind and amount of exercise best adapted to the needs of each man. The Gymnasium is large, thoroughly equipped, and under the immediate supervision of the Professor of Physical Education, who is assisted by a corps of able instructors.

Employment. The Appointments Office, located in Alumni House, is the central placement department of the University through which students and graduates are referred to suitable positions. For the convenience of the dental students, a division of the office is operated at the Medical Center in coöperation with the office of the Dean of the School.

It is the function of the Appointments Office to endeavor to secure for competent men and women students who need to work their way through the University, the opportunity to earn enough for their partial support. It is the experience of the office, however, that it is practically impossible for dental students to undertake outside part-time work during the academic year without seriously jeopardizing their school work and their health. The office consequently does not encourage students of the School of Dental and Oral Surgery to seek employment during the academic year, although it assists competent men and women to secure suitable and remunerative work during the summer. In general, the office advises students who are unable to pay the complete cost of attending the School to withdraw for a year in order to earn the money necessary to enable them to give undivided attention to their academic work.

MEDICAL ATTENDANCE

A medical examination is given to each student annually. Provision has also been made at the Medical Center for examination and advice in cases of minor illnesses and for treatment of emergencies. All entering students are required to have a dental examination in the School and to have all necessary dental work completed prior to graduation. The University Medical Officer, Dr. W. H. McCastline, has supervision of all matters affecting the health of the student body.

RESIDENCE HALLS

The University maintains on the campus at 116th Street or immediately adjacent thereto Residence Halls for men and women. Copies of the Residence Halls announcements and application blanks for rooms will be furnished on request by the Secretary of the University, 213 Low Memorial Library for the Men's Residence Halls, and by the Residence Halls Office, Teachers College, Columbia University, for the Women's Residence Halls.

OFF-CAMPUS ACCOMMODATIONS

Students who find it necessary to live outside the University may obtain lists of inspected rooms and apartments at the Registry of Off-Campus Accommodations, 125 Livingston Hall.

KING'S CROWN HOTEL

The King's Crown Hotel, 420 West 116th Street, in close proximity to the University, is owned by the University. It provides accommodations at reasonable rates, available for relatives and guests of members of the University community.

INTERNATIONAL HOUSE

International House, 500 Riverside Drive, is a privately endowed residence for students from foreign lands and a limited number of American students. It accommodates 175 women and 325 men and contains a restaurant and social rooms. Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain of the University and his staff and the offices of the three Religious Counselors. These floors also contain an auditorium and other facilities for extensive religious and social activities. The lower floor, entered from Broadway, is occupied by the offices of the University Medical Officer.

UNIVERSITY BOOKSTORE

For the convenience of the medical and dental students, the University Bookstore maintains a branch on B floor of the College of Physicians and Surgeons. In addition to medical and dental textbooks, the store carries a stock of new and used microscopes, laboratory equipment, and student supplies. The textbooks are sold at discounts from the usual prices whenever such discounts are permitted by the publishers. The store is open from 8:30 a.m. to 6 p.m. daily; during the first days of the opening session, until 10 p.m. The store maintains a theater and concert ticket service, a travel bureau, and other services.

HAMILTON ARBORETUM AND GARDENS ("NEVIS")

The Hamilton Arboretum and Gardens ("Nevis"), an estate of approximately sixty-eight acres, the gift of Mrs. T. Coleman du Pont, of Wilmington, Delaware, is located at Irvington-on-Hudson, about sixteen miles north of New York City. Classes in landscape architecture and general horticulture meet at "Nevis," and special lectures are arranged from time to time.

A GUIDE TO COLUMBIA UNIVERSITY

A description of the grounds and buildings of the University will be found in *A Guide to Columbia University*, which is published by Columbia University Press, 709 Journalism, at \$1.25 in cloth and \$.50 in paper. The book also contains an account of the University's history and traditions.

REQUIREMENTS FOR ADMISSION, PROMOTION AND GRADUATION

ADMISSION TO FIRST YEAR OF THE SCHOOL OF DENTAL AND ORAL SURGERY

Eligibility. No definite information regarding eligibility can be given until the completed application blank has been filed by the applicant at the office of the Dean.

Application. It is desirable that candidates make application during the academic year preceding that in which they seek admission. It is not necessary to complete the academic requirements before making application. However, all requirements must be completed before matriculation. Application blanks will be furnished by the Dean's office of the School of Dental and Oral Surgery, 630 West 168th Street, New York City. Application blanks must be completely filled in and accompanied by an official transcript of the college record.

For the period of the national emergency, the minimum requirement for admission to the first year class has been reduced from the satisfactory completion of three full years to the satisfactory completion of two full years (four sessions) at an acceptable college of arts and sciences, which must include the courses required for the dental student qualifying certificate as mentioned below.

The New York State Board of Regents includes the following subjects in the minimum requirements for the qualifying certificate:

	<i>Semester Hours</i>
English composition and literature	6
Physics	6
Biology	6
Chemistry (including an approved course in organic chemistry)	12

A point or semester hour is the equivalent of one hour of lecture or recitation or of two hours of laboratory work per week, per semester. Suitable laboratory work must be included in each of the courses in science.

Inasmuch as an understanding of the biological sciences is based upon the knowledge of the underlying sciences of chemistry, physics, and biology, students are urged, so far as time permits, to take additional courses in quantitative, qualitative, physical, and organic chemistry, physics, comparative anatomy, and other advanced courses in biology, as well as courses in mathematics, German and French, sociology, history, and other subjects of general cultural and scientific value. Courses in shop practice and drawing are also of value in the more technical phases of dentistry in giving the muscle and eye coördination so necessary, but so difficult to attain in later years.

Owing to the limited number of students who can be accommodated, completion of the requirements for entrance does not guarantee admission. The entire predental record of each student is carefully examined by the Committee on Admissions in order that those who are adjudged most capable of meeting the exacting demands of the course and of the profession of dentistry may be selected. Preference will be given in the selection of students to those who present to the Committee on Admissions evidence of high achievement in selected college courses of special predental value and who are most likely to succeed in dentistry, rather than to those who present the largest number of course credits or those who have limited their preparation to the prescribed subjects.

COMBINED COURSES

Combined Courses with Columbia College. Upon receiving ninety-four points credit, sixty-four of which must be for work in Columbia College, including all the work prescribed for the degree of Bachelor of Arts in Columbia College, a student may take studies in the first year of the School of Dental and Oral Surgery, provided he can satisfy the stated requirements and is accepted for admission therein, and will receive the degree of Bachelor of Arts from Columbia College upon the satisfactory completion of the year's work. No course may be counted toward a professional degree and at the same time be included among those which go to make up the ninety-four points referred to above.

Combined Courses in Dentistry and Medicine. It is usually possible for a graduate of a registered medical school with the degree of Doctor of Medicine to meet the requirements of the School and receive the degree of Doctor of Dental Surgery by the satisfactory completion of a special two-year course.

SUMMER SESSION

In 1943 there will be no separate Summer Session, regular classes continuing from March to September with a vacation period during the month of June. A fee of \$166.67 is payable for the period extending from June 1 to September 20.

COURSES FOR DENTAL HYGIENISTS

The courses in dental hygiene offered by the School of Dental and Oral Surgery are intended for women who desire to become licensed dental hygienists. The requirements for admission are the qualifying certificate obtained from the Department of Education of the State of New York at Albany, New York, the completion of at least four years of high school work, including certain specified subjects, and the attainment of at least eighteen years of age. Preference will be shown for applicants who have satisfactorily completed two or more years of college work. For full information address Mrs. FRANCES A. STOLL, at 630 West 168th Street.

COURSES FOR GRADUATES

The School of Dental and Oral Surgery, in coöperation with University Extension, arranges courses in the various divisions of dentistry to meet the needs of groups of practitioners. In 1941-1942 short refresher courses were offered in applied anatomy,

oral diagnosis, oral pathology, orthodontics, periodontia, and practice management. Fees for such courses are based on costs. Requests should be sent to the office of the Dean.

Graduate students are accepted for advanced individual clinical study and for research. Requirements include graduation from an approved dental school, membership in the candidate's local and national dental societies, and recommendations from ethical practitioners. In most divisions of the School the applicant must register for a minimum period of one semester, either full or half-time. There is no degree or certificate offered for these specially arranged courses. Fees are based on the regular undergraduate fees. Applications should be sent to the office of the Dean, School of Dental and Oral Surgery, 630 West 168th Street, New York City.

CERTIFICATE OF PROFICIENCY

The School of Dental and Oral Surgery is authorized to grant a certificate of proficiency in dentistry or in a special branch of dentistry selected by the candidate and approved by the School of Dental and Oral Surgery to students who have complied with the requirements stated below. The requirements for admission are graduation from the School of Dental and Oral Surgery or from another acceptable school of dentistry in the United States or in a foreign country, and membership in good standing in the applicant's national dental association. The membership requirement does not apply to students who enter within a year of graduation.

The course of study for the certificate of proficiency includes not less than forty-eight trimester credits of special work in the clinical branches of dentistry approved by the Dean of the School of Dental and Oral Surgery. The fee for the year's work leading to the certificate of proficiency is the same as for undergraduate work in the School.

Application blanks may be obtained from the Dean's office. When application for registration is made, the candidate is passed upon by the Dean and the teachers concerned and, if accepted, registers in the regular manner.

COURSES IN ORTHODONTICS FOR GRADUATES

An organized fourteen-month course is offered to qualified graduates in dentistry who wish to prepare for specialization in orthodontics. Admission requirements include graduation from an acceptable school of dentistry and membership in good standing in the national dental organization of the applicant's country. This membership requirement does not apply to those who enter within the year of graduation or to those who have continued in full-time internships in hospitals or dispensaries. The certificate of proficiency is awarded to those who satisfactorily complete the course.

For special information see the Announcement of Advanced and Graduate Courses in Dentistry, which may be obtained from the Dean, School of Dental and Oral Surgery.

GRADUATE COURSES

Graduation from accredited dental schools under the present curriculum of four academic years preceded by three acceptable predental college years is considered by

the Graduate Faculties of Columbia University as meeting the general requirement for admission. There are additional admission requirements in certain departments. A student who is accepted by the Graduate Faculties as a candidate for the degree of Doctor of Philosophy and who holds the Doctor of Dental Surgery degree from Columbia University may, with the consent of the Dean, offer the work done for the professional degree in lieu of thirty points toward the fulfillment of the resident requirement for the degree. For further information see the Graduate Announcement.

PUBLIC HEALTH FOR DENTISTS

A one-year course leading to a Master of Science degree in public health for dentists is offered. The course is open to graduate dentists who have completed satisfactory courses in the fundamental sciences and who hold a Bachelor of Science or Bachelor of Arts degree. For information regarding course content, registration, and fees apply to the DeLamar Institute of Public Health, 600 West 168th Street, New York City.

REGISTRATION

Before attending University courses, every student must present himself at the office of the Registrar and file a registration blank giving such information as may be required. The periods set aside for registration in each session are stated in the Academic Calendar at the end of this Announcement. Registration at a later date is permitted only on the written permission of the Dean, satisfactory cause for the delay having been shown.

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Payment of fees after the last day of registration (see the Academic Calendar) imposes automatically the statutory charge of \$3.00 for this privilege. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for dental students:

(a) University Fee

For all students for each session, or for any part thereof \$10.00

(b) Tuition Fee*

1. For the course in dentistry for one half an academic year in the case of a student enrolled for the full course 250.00
- For the course in dentistry for the period from June 1 to September 20 in the case of a student enrolled for the full course 83.33

* Not applicable to students accepted under Army Specialized or Navy Collegiate Training Programs.

(The total tuition fees, not including special fees, for the complete prescribed course in dentistry will continue to be \$2,000.)

For students not enrolled for the full course, fees are to be assessed by the Registrar as provided by the University Statutes.

(c) Fee for Application

- | | |
|--------------------------------|-------|
| 1. For a degree | 20.00 |
| 2. For a certificate | 10.00 |

(d) Privileges

- | | |
|--|------|
| 1. Late registration or late application for a degree or certificate or for deficiency or special examinations | 3.00 |
| 2. Deficiency or special examinations | 3.00 |
| 3. Renewal of application for any degree or certificate | 1.00 |

(e) Student Activities (payable annually)

- | | |
|---|------|
| 1. For all students, <i>Columbia Dental Review</i> | 2.00 |
| 2. For sophomores, juniors, and seniors, junior membership in the American Dental Association | 3.00 |

(f) Case Rental

- | | |
|--|------|
| For sophomores, juniors, and seniors, rental for one instrument case . . . | 5.00 |
|--|------|

(g) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the second Saturday of the Winter Session or after the first Saturday of the Spring Session, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

(h) Deposit \$25.00

Required of each student to cover material and breakage in the laboratories and clinic. The deposit for breakage includes apparatus to replace broken articles or articles not returned at the close of the course; any chemicals not in the kit of chemicals supplied to each student, or additional quantities of chemicals beyond this allowance; and service in washing apparatus or work by a mechanic. Refund of any balance will be made upon the completion of the prescribed course or withdrawal from the School.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Dean that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if he does not register at the School for the specified session, it will not be returned. If he registers at the School at the next enrollment of entering students, the amount of the acceptance fee will be deducted from his tuition fees for that session.

Instruments and Supplies. Each student is required to supply himself with instruments as specified in the official instrument list. The purchase from the University of instruments in original package outfits has been made compulsory, and unauthorized or incomplete equipment will not be accepted by the instructors. All technic material and regular supplies must be purchased from the University upon an order from the instructor. The students will not be allowed to purchase more than is required to complete a case. The quantity and quality are selected with a view to the best possible results and conservation of the student's best interests.

Microscopes. All students entering the School of Dental and Oral Surgery are required to provide themselves with microscopes of a satisfactory type. A microscope of standard make fitted with the following attachments will fill the requirements:

Triple nosepiece	10x and 6x oculars
Abbe condenser	16 mm. and 4 mm. objectives
	Oil immersion lens

The cost of a suitable reconditioned microscope varies from \$60 to \$100, depending on the make and model. The standard price of new microscopes is \$155. Each student should also provide himself with a substage lamp. During the national emergency it is possible to rent microscopes from the University Book Store at rental fees ranging from \$15 to \$25 for the academic year, with a pro rata fee for shorter periods.

Lockers. Each student will be assigned a locker on entering and will be required to use a combination lock as prescribed by the School.

ESTIMATED EXPENSES

Following is an itemized estimate of the average expenses of a full-time student under the accelerated program in the School of Dental and Oral Surgery for the year, exclusive of travel, clothing, amusements, charity, organizations, and sundries. These items are, of course, variable, but should not be overlooked in estimating the total expense. The tuition, room, board, books, and laundry figures are based upon the rates which prevailed during the past academic year and can be accepted as applicable for the year 1943-1944 unless national economic changes require their alteration.

	<i>Average</i>	<i>Minimum</i>
Tuition and fees	\$726.67	\$718.67
Room	275.00	225.00
Board	400.00	330.00
Books	80.00	40.00
Instruments (see below)	200.00	200.00
Laundry	50.00	36.00
	<hr/>	<hr/>
	\$1,831.67	\$1,549.67

The approximate cost of instruments for the four-year course is \$650 plus the cost of the microscope. It may be necessary to rent some instruments from the University. Instruments are to be paid for at the opening of the academic year. The cost of books will vary, depending upon the choice made from the selection offered.

REQUIREMENTS FOR PROMOTION

1. A student may be admitted to the second, third, or fourth year of the dental curriculum only upon the recommendation of the class Faculty under which he has studied during the preceding year.

2. The Faculty of the School of Dental and Oral Surgery reserves the right to refuse readmission or promotion to any student who is believed for any reason to be unsuited to the conditions of study in this school.

Students are classified for readmission or promotion under the following headings:

- I. Recommended for advancement
 - a) Unconditionally
 - b) Conditionally
- II. Recommended for readmission to the same class
- III. Recommended neither for advancement nor for readmission to the same class
 - a) Because of failure
 - b) Those who fall under paragraph 2 of rules for advancement of students

GRADING OF STUDENTS

The following grade equivalents are used: A, excellent; B, good; C, fair; F, failure.

REQUIREMENTS FOR GRADUATION

In addition to complying with the requirements for admission and to completing the required work of the curriculum, each candidate for the degree of Doctor of Dental Surgery must present satisfactory evidence as required by law of good moral character and of having attained the age of twenty-one years. If the candidate shall have been admitted to advanced standing, he must have spent not less than four academic years or their equivalent in approved medical or dental colleges in the study of the subjects making up the curriculum of the School of Dental and Oral Surgery.

LICENSE TO PRACTICE DENTISTRY IN NEW YORK STATE

Those desiring to take the New York State Board examinations are advised to address the Chief of Professional Examinations Bureau, New York State Department of Education, Albany, New York. All requirements for admission to the examinations should be completed at least fifteen days before the examinations begin.

The examinations are conducted by the Department, and answer papers are read and marked by the Board, who know the candidate only by number. The subjects of the licensing examinations are anatomy, chemistry and metallurgy, operative dentistry and radiography, therapeutics and materia medica, physiology and hygiene, oral surgery, pathology and bacteriology, prosthetic dentistry, and histology. The operative and prosthetic subjects are divided into theory and practice. The minimum standing required in each subject is 75 percent.

The State Department of Education will admit conditionally to the examinations

in anatomy, physiology, chemistry and metallurgy, and histology, applicants over nineteen years of age who are of good moral character, who are citizens of the United States or have declared the intention of becoming citizens in accordance with the law, and who are certified as having successfully completed the first two years of the required course in a registered dental school.

LICENSE TO PRACTICE DENTISTRY IN NEW JERSEY

Those desiring to take the examinations of the State Board of Registration and Examination in Dentistry of New Jersey must obtain from the Bureau of Credentials, Department of Public Instruction, Trenton, New Jersey, preferably before entering a dental college but not later than two months after matriculation, a dental student qualifying certificate. This is in addition to the New York State dental student qualifying certificate. Applicants for the New Jersey licensing examinations must file a preliminary application by March 15 for the June examination or by September 1 for the December examinations.

FELLOWSHIPS, SCHOLARSHIPS, AND PRIZES

Recipients of University financial aid in excess of tuition, whether in the form of fellowships, scholarships, or other grants, will be asked to reside in the University Residence Halls unless exempted by the appropriate Dean with the approval of the President upon the presentation of adequate reasons for living elsewhere.

Two Ellis Fellowships are awarded annually to qualified graduates of any of the colleges of recognized rank in the state of Vermont. The holders of these fellowships may pursue resident graduate studies under any one of the graduate schools maintained by the University, and are eligible for reappointment for not more than two additional years, with the proviso that a holder of the fellowship who is a student in medicine may be eligible for reappointment for not to exceed three additional years. The annual stipend is \$1,600. Applications should be submitted on or before March 1 on blanks to be filed with the Secretary of the University.

Three scholarships of tuition value in the School of Dental and Oral Surgery are awarded annually. These scholarships are open to students from outside the metropolitan area whose records of scholarship and special fitness for dentistry make them particularly desirable to the School.

The W. K. Kellogg Foundation has provided scholarship and loan assistance to a limited number of dental students who have been accepted by the military services and who satisfy the requirements of scholastic ability, character, and need.

A prize known as the Ella Maria Ewell Medal is awarded annually to that student of the School of Dental and Oral Surgery who, in the judgment of the Faculty, is most proficient in some subject of dentistry. The branch of dentistry for which the award is made is determined by the executors of the will of Glover C. Beckwith-Ewell.

The Van Woert Scholarship Fund was established by the alumni of the School of Dental and Oral Surgery in 1940. The award, the income from \$1,000, is given annually to a senior student in the dental school who stands high in scholastic attain-

ments, in personal character, in potentiality of being a credit to Columbia University and the dental profession, and who is in need of financial aid.

The Alumni Association makes an annual award of the Rowe-Wiberg Medal to the senior student who has shown the greatest proficiency in prosthetic dentistry.

The E. D. Newman award is made annually by the Alpha Omega Fraternity to the member of the graduating class who has received the highest scholastic average for the entire professional course.

An annual award is made by the Sigma Epsilon Delta Fraternity to the graduating student who, in the opinion of the Faculty, shows the greatest promise.

An annual certificate award for proficiency in dentistry for children has been established by the *Dental Columbian* of the Class of 1939.

OMICRON KAPPA UPSILON

Epsilon Epsilon chapter of Omicron Kappa Upsilon, national honorary fraternity, was chartered in the School of Dental and Oral Surgery in 1934. The purpose of this organization is to recognize and honor scholarship and, especially, character of outstanding quality in members of the senior class. The leading 12 percent of the graduating class is eligible for election each year.

THE WILLIAM JARVIE SOCIETY

The William Jarvie Society for Dental Research is a non-secret, dental honor society open to sophomores, juniors, and seniors, membership in which is based upon scholarship and interest in dental research. The society was organized in the School of Dental and Oral Surgery in 1920 and named after Dr. William Jarvie because of his wide interest in the promotion of dental research. The society aims to promote the spirit of research among the students.

THE ASSOCIATION OF THE ALUMNI OF THE SCHOOL OF DENTAL AND ORAL SURGERY

President, PHILIP R. SUESKIND, D.D.S.

Vice-President, LOUIS N. CITRON, D.D.S.

Secretary, NATHANIEL DINER, D.D.S.

Treasurer, HANNAH J. APPEL, D.D.S.

Honorary Chairman, JOSEPH SCHROFF, M.D., D.D.S.

Delegates to the Board of Governors of Columbia Alumni Federation, DRs.
MYRON BOGDONOFF, JOHN T. FLYNN, THEODORE O. PETERSON.

Any graduate, former student, Faculty member, or administrative officer of the School of Dental and Oral Surgery is eligible to membership in the Association of the Alumni of the School of Dental and Oral Surgery of Columbia University.

By utilizing the summer periods, the work of the four academic years will be covered in three calendar years during the national emergency.

<i>Subject</i>	<i>Trimester Credits</i>	<i>Lecture Hours</i>	<i>Lab. or Clinic Hours</i>	<i>Total Hours</i>
FRESHMAN YEAR:				
Anatomy				
Embryology	2	20	. . .	20
Gross	15	60	262	322
Microscopic	8	38	126	164
Neuro	4	60	. . .	60
Oral	6	18	95	113
Biochemistry	8	35	105	140
Histology, oral	2	7	61	68
Physiology	10	56	148	204
SOPHOMORE YEAR:	55			1,091
Bacteriology	7	40	90	130
Crown and bridge	4	10	85	95
Dental materials	2	. . .	60	60
Oral hygiene	2	20	. . .	20
Operative dentistry	9	20	215	235
Pathology	11	70	130	200
Pharmacology	6	40	60	100
Prophylaxis	1	. . .	30	30
Prosthetic dentistry	10	20	210	230
Psychopathology	1	10	. . .	10
Radiology	1	10	. . .	10
Surgery, oral	2	20	. . .	20
JUNIOR YEAR:	56			1,140
Bacteriology	1	10	. . .	10
Crown and bridge				
Technic	6	10	135	145
Porcelain	2	. . .	60	60
Round wire	1	. . .	30	30
Diagnosis, dental	4	30	30	60
Operative dentistry	11	20	300	310
Orthodontics	5	20	75	95
Pathology, oral	4	20	60	80
Periodontology	1	. . .	30	30
Pharmacology, applied	1	10	. . .	10
Prosthetic dentistry	7	20	150	170
Public health	1	10	. . .	10
Radiology	1	. . .	30	30
Surgery, oral	2	10	30	40
Theory and practice	3	30	. . .	30
SENIOR YEAR:	50			1,110
Anatomy, applied	1	10	. . .	10
Crown and bridge	6	10	150	160
Diagnosis, dental	1	. . .	30	30
Operative dentistry	13	20	330	350
Pedodontics	4	10	90	100
Periodontology	3	20	25	45
Practice of medicine	7	60	20	80
Prosthetic dentistry	6	10	150	160
Surgical prosthesis	1	. . .	30	30
Surgery, oral	3	40	30	70
General anesthesia	1	. . .	30	30
	46			1,065
Senior electives				
Oral pathology . . . . .	. . .	15	. . .	15
Oral surgery . . . . .	. . .	30	. . .	30
Orthodontics . . . . .	. . .	. . .	30	30

COURSES OF INSTRUCTION

For purposes of instruction the work of each academic year is scheduled in three sessions which are designated as First, Second, and Third. The unit of credit signifies approximately three academic hours of work a week for one session. For classroom work this means one hour a week in class and an average of two hours of home work. For laboratory or clinical work it represents three academic hours of work a week in the School.

For a detailed statement of the content of each course, the student is referred to the departmental statements which follow. Courses numbered from 100 to 199 are open to candidates for the degree of Doctor of Dental Surgery in the first and second academic years. Courses numbered from 200 upward are open to candidates for the degree of Doctor of Dental Surgery in the third and fourth academic years.

The outline on page 00 shows the work required of a candidate for the degree of Doctor of Dental Surgery. The University reserves the right to make such changes in the program of studies at any time as experience may prove desirable.

Courses enclosed in brackets are not given in 1943-1944.

Each senior is required to present a thesis representing original reading, scientific research, or both. This shall be completed under the immediate supervision of Associate Dean HOLLIDAY and with the help of an adviser in the field selected.

Members of the senior class will also be required to take a comprehensive examination, which will be given near the end of the academic year, and the results will be considered as one of the indications of the fitness of the candidates for graduation.

ANATOMY

Anatomy 101—Oral anatomy. Freshman year. 6 credits. Professors DIAMOND and APPLEBAUM and assistants.

Lectures, recitations, and laboratory on the growth and development of the jaws and face and the individual teeth, the structural formation of the teeth, the anatomy of the surrounding and related tissues of the oral cavity, and the morphology of the teeth.

Anatomy 115—Oral histology and embryology. Freshman year. 2 credits. Professors BODECKER and LEFKOWITZ and Dr. THOMAS.

Lectures and laboratory on the microscopic structures of the oral tissues and the application of this knowledge to technical dentistry.

Anatomy 150—Microscopic anatomy. Freshman year. 8 credits. Professors P. E. SMITH, COPENHAVER, ENGLE, SEVERINGHAUS, and assistants.

Lectures, conferences, and laboratory.

This course is the same as *Anatomy 101F* in the Medical School.

Anatomy 151—Gross anatomy. Freshman year. 15 credits. Professor ROGERS and assistants.

Lectures, conferences, and laboratory.

Anatomy 152—Embryology. Freshman year. 2 credits. Professors DETWILER, COPENHAVER, ROGERS, and SMELSER and Dr. ZACHARIAS.

Lectures and demonstrations dealing with the dynamics of vertebrate development, with particular reference to mammals and man.

Anatomy 153—Neuroanatomy. Freshman year. 4 credits. Professors ELWYN and BRICKNER, Drs. SALZER, LYONS, and MANGINELLI.

Lectures and demonstrations on the gross anatomy, structure, and functions of the central nervous system. This course is equivalent to *Anatomy 106S* in the Medical School.

Anatomy 252—Applied anatomy of the head and neck. Senior year. 1 credit. Professor SHAPIRO.

Lectures and demonstrations. A review course with special application to the problems of the major fields of dentistry.

BACTERIOLOGY

Bacteriology 151—General medical bacteriology and immunology. Sophomore year. 4 credits. Professor ROSEBURY and assistants.

Lectures, conferences, and laboratory.

Bacteriology 152—Principles of bacteriology, epidemiology, infection, immunity, serum diagnosis, and specific therapy. Sophomore year. 3 credits. Professors DOCHEZ, JUNGBLUT, and ROSEBURY and staff.

This course is identical with *Bacteriology 105F* in the Medical School except that lectures on the mouth bacteria are substituted for several of those of the medical series.

Bacteriology 253—Bacteriology and etiology of dental disease. Junior year. 1 credit. Professor ROSEBURY.

Lecture-demonstrations on oral bacteriology and experimental research in problems of dental disease.

BIOCHEMISTRY

Biochemistry 150—Introductory biochemistry. Freshman year. 8 credits. Professor KARSHAN and assistants.

Lectures and laboratory. A study of the chemistry of life processes with special reference to the animal organism.

CROWN AND BRIDGE

Crown and Bridge 105—Crown and bridge lectures and technic. Sophomore year. 4 credits. Professors HOYT and McLAUGHLIN, Drs. MARCHAND and ZERR.

Lectures on the technical procedures in crown and bridgework with practical application, and the construction of bridges and crowns on technic models.

Crown and Bridge 205—Crown and bridge lectures and technic. Junior year. 6 credits. Professors HOYT and McLAUGHLIN, Drs. MARCHAND and ZERR.

Lectures on the technical procedures in crown and bridge work with practical application, and the construction of bridges and crowns on models and extracted teeth.

Crown and Bridge 207—Porcelain technic. Junior year. 2 credits. Professor McLAUGHLIN and Dr. MARCHAND.

Uses of porcelain ; construction of porcelain jacket crown on technic model ; staining and glazing of artificial teeth.

Crown and Bridge 209—Round wire technic. Junior year. 1 credit. Dr. ZERR.

Lectures and laboratory in the construction of round wire clasps and lugs for partial dentures.

Crown and Bridge 210—Crown and bridge lectures. Senior year. 1 credit. Professor HOYT.

Lectures and conferences on various types of bridgework.

Crown and Bridge 211—Crown and bridge clinic. Senior year. 7 credits. Professors HOYT, G. P. SMITH, McLAUGHLIN, Drs. BOYD, JUNEMANN, and MARTIN.

Clinical construction of crown and bridgework.

DENTAL MATERIALS

Dental Materials 126—Physical properties of dental materials. Sophomore year. 2 credits. Dr. AYERS.

Metallurgical processes and apparatus and physical and chemical properties of the metals and other materials used in dentistry. Lectures and laboratory.

DIAGNOSIS

Diagnosis 212—Dental diagnosis lecture and clinic. Junior year. 4 credits. Professor ZISKIN and clinical staff.

Lectures, conferences, and clinical practice in oral examination and charting, history-taking, methods of pulp testing, dental x-ray diagnosis, oro-dental symptomatology, and occlusal dys-harmonies.

Diagnosis 213—Dental diagnosis clinic. Senior year. 1 credit. Professors ZISKIN, STOWE, and ROSENSTEIN and the clinical staff.

Continuation of clinic of *Diagnosis 212*.

MEDICINE

Medicine 278—General survey of medicine. Senior year. 7 credits. Professor McBEATH and associates.

Lectures and conferences covering phases of general medicine pertinent to dentistry and clinics for small groups in which the patients are studied for correlation of systemic and dental conditions.

OPERATIVE DENTISTRY

Operative Dentistry 131—Operative dentistry technic. Sophomore year. 7 credits. Professors HARTMAN, LINDIG, and M. R. MILLER, and Drs. FRITZ, HUNT, and assistants.

Lectures and laboratory on operative instruments and materials, their case and uses, and the technic of cavity preparations, fillings, and gold inlays.

Operative Dentistry 132—Operative dentistry lectures. Sophomore year. 2 credits. Professors HARTMAN, LINDIG, and M. R. MILLER and Dr. HUNT.

Lectures on laboratory procedure in operative dentistry.

Operative Dentistry 233—Operative dentistry lectures. Junior year. 1 credit. Professors HARTMAN and OMAN.

Lectures and conferences on operative dentistry procedures.

Operative Dentistry 234—Operative dentistry technic and clinic. Junior year. 10 credits. Professors HARTMAN, LINDIG, and M. R. MILLER and Dr. HUNT, and assistants.

The technic of porcelain inlay and clinical practice and demonstrations.

Operative Dentistry 235—Operative dentistry lectures. Senior year. 2 credits. Professor HARTMAN.

Conference course on problems in operative dentistry and root canal therapy.

Operative Dentistry 236—Operative dentistry clinic. Senior year. 11 credits. Professors HARTMAN, OMAN, LINDIG, M. R. MILLER, Drs. HUNT and THOMAS, and assistants.

Clinical practice and demonstrations in operative dentistry and root canal therapy.

ORAL HYGIENE

Oral Hygiene 122—Oral hygiene lectures. Sophomore year. 2 credits. Professor LEONARD and Dr. SIMMONS.

Lectures and conferences on scientific findings relating to the causes and prevention of the common diseases and defects of the teeth.

ORTHODONTICS

Orthodontics 241—Principles of orthodontics. Junior year. 5 credits. Professors WAUGH, BARBER, CALLAWAY, MURPHY, TOTTEN, and staff.

Lectures, demonstrations, and laboratory. Orthodontic fundamentals with special emphasis on prevention in orthodontics by early recognition and correction of the predisposing factors. Laboratory instruction in the fundamental technic of making plain labial and lingual arches, space retainers, and habit breakers.

Orthodontics 243—Orthodontic elective. Senior year. No credit. Professor WAUGH.

Clinical orthodontics. Offered to seniors who are eligible for electives.

PATHOLOGY

Pathology 150—General and special pathology. Sophomore year. 11 credits. Professors JOBLING and SPROUL and assistants.

This course covers the subject matter of *Pathology 101FS* in the Medical School, but in abbreviated form.

Pathology 246—Oral pathology. Junior year. 4 credits. Professors CAHN and BARTELS.

Lectures, conferences, and laboratory work on the pathology of the diseases of the jaws, mouth, and teeth.

Pathology 247—Oral pathology seminar. Senior year. No credit. Elective. Professor CAHN.

Conferences on the clinical application of oral pathology.

PEDODONTICS

Pedodontics 202—Pedodontics, lectures and clinic. Senior year. 4 credits. Professors McBEATH, STOWE, and ROSENSTEIN.

Lectures and conferences on operative and preventive dental procedures for children, the handling of the child, and the application of present knowledge of preventive dentistry. Clinical work includes history-taking, prophylaxis, and restorative procedures adapted to deciduous and early permanent dentitions.

PERIODONTOLOGY

Periodontology 151—Periodontia clinic. Sophomore year. 1 credit. Professors LEONARD, HOLLIDAY, BEUBE, and Dr. SIMMONS.

Lectures, laboratory, and clinical work on personal dental hygiene, dental prophylactic technic, and simple periodontia.

Periodontology 251—Periodontia clinic. Junior year. 1 credit. Professors LEONARD, HOLLIDAY, BEUBE, and Dr. SIMMONS.

Lectures and clinical work in the diagnosis and treatment of periodontoclasia.

Periodontology 252—Periodontology lectures. Senior year. 2 credits. Professors LEONARD and HIRSCHFELD and Dr. MERRITT.

Lectures and conferences on the theory and practice of periodontology.

Periodontology 253—Periodontia clinic. Senior year. 1 credit. Professors LEONARD, HOLLIDAY, BEUBE, and Dr. SIMMONS.

Advanced work in the clinical diagnosis and treatment of periodontoclasia.

PHARMACOLOGY

Pharmacology 150—General pharmacology. Sophomore year. 6 trimester credits. Professor LIEB, Drs. BEAVEN, HUMBERT, and DISICK.

Lectures, conferences, and laboratory. In this course the pharmacological action of drugs on man and lower animals is studied. Short courses in pharmacy and prescription writing are included.

Pharmacology 250—Applied pharmacology. Senior year. 1 credit. Dr. HUMBERT.

Lectures and conferences on drugs and other therapeutic agents used in dentistry.

PHYSIOLOGY

Physiology 150—Mammalian physiology. Freshman year. 10 credits. Professor GREGERSEN and assistants.

Lectures, conferences, and laboratory. This course is equivalent to *Psychology 101* in the Medical School, with medical and dental students taking the lectures together.



THE MEDICAL CENTER, INCLUDING THE SCHOOL OF DENTAL AND ORAL
SURGERY WING AT THE RIGHT

PROSTHETIC DENTISTRY

Prosthetics 157—Prosthetic lectures and technic. Sophomore year. 10 credits. Professors HOYT, YOUNG, and McKENZIE and Dr. JUNEMANN.

Lectures and technical procedures in full and partial denture construction.

Prosthetics 260—Prosthetic lectures. Junior year. 2 credits. Professors YOUNG and G. P. SMITH.

Examination, classification, application of anatomical considerations, and clinical procedure in full and partial denture construction.

Prosthetics 261—Prosthetic clinic. Junior year. 5 credits. Professors YOUNG, RALSTON, and McKENZIE and Dr. JUNEMANN.

Clinical construction of full and partial dentures.

Prosthetics 263—Prosthetic clinic. Senior year. 6 credits. Professors HOYT, YOUNG, McLAUGHLIN, G. P. SMITH, RALSTON, and McKENZIE, and Drs. JUNEMANN, MARTIN, and BEDER.

Clinical construction of full and partial dentures.

Prosthetics 264—Prosthetic lectures. Senior year. 1 credit. Professor HOYT and guest lecturers.

A series of lectures by outstanding local practitioners in the prosthetic field on clinical considerations in partial denture diagnosis, design, and construction.

Prosthetics 265—Surgical prosthesis. Senior year. 1 credit. Professor OLINGER and Dr. BEDER.

Lectures and technical procedures in maxillofacial and surgical prosthesis.

PSYCHIATRY

Psychiatry 150—Psychopathology. Sophomore year. 1 credit. Professor LEWIS.

Lectures in psychobiology; the growth, instinctive and emotional development of the individual from birth to adulthood; personality traits and patterns; personality factors in physical illness; types of abnormal behavior based on brain pathology, on functional processes or habit disturbances. Principles of mental hygiene and environmental adjustments.

PUBLIC HEALTH

Public Health 222—Principles of public health. Junior year. 1 credit. Professor MUSTARD and staff.

Survey course in the theory and practice of preventive medicine, dentistry, and public health. Fundamental principles of administration, statistics, epidemiology, industrial hygiene, and sanitation. The principles and problems of dental public health practice are emphasized.

RADIOLOGY

Radiology 165—Oral radiology conference. Sophomore year. 1 credit. Professor HOLLIDAY.

Lectures, readings, and discussions on topics relative to oral radiology.

Radiology 267—Oral radiology practice. Junior year. 1 credit. Professor HOL-
LIDAY and assistants.

Practice in exposing, processing, and mounting dental radiographs.

SURGERY

Surgery 168—Principles of surgery. Sophomore year. 2 credits. Professor
PARKER.

Lectures and conferences on principles of surgery and a consideration of general surgical diseases.

Surgery 270—Oral surgery. Junior year. 1 credit. Professors PARKER and
McCAFFREY.

Lectures and conferences on local and general anesthesia and exodontia.

Surgery 271—Oral surgery clinic. Junior year. 1 credit. Professors H. S. DUN-
NING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and assistants.

Clinical practice and demonstration on local anesthesia and exodontia.

Surgery 272—Oral surgery. Senior year. 2 credits. Professors H. S. DUNNING
and BERGER.

Lectures and conferences on oral and maxillofacial surgery.

Surgery 273—Oral surgery clinic. Senior year. 1 trimester credit. Professors
H. S. DUNNING, BERGER, PARKER, McCAFFREY, SCHROFF, BIRENBACH, and
assistants.

Further clinical practice in local and general anesthesia, exodontia, and oral surgical operations.

Surgery 274—Oral surgery demonstrations. Senior year. No credit. Elective.
Professors H. S. DUNNING, BERGER, PARKER, and McCAFFREY.

Demonstrations on oral pathological and maxillofacial lesions.

Surgery 275—General anesthesia. Senior year. 1 credit. Professors H. S. DUN-
NING, BERGER, APGAR, PARKER, SCHROFF, and McCAFFREY.

Lectures and demonstrations in the administration of general anesthetics, featuring nitrous oxide
and oxygen, and other inhalation anesthetics, such as ether and ethyl chloride.

THEORY AND PRACTICE OF DENTISTRY

Theory and Practice 281—Dental ethics. Junior year. 1 credit. Professor W. B.
DUNNING.

Lecture and conference course on ethics and dental ethics.

Theory and Practice 282—Dental jurisprudence and history. Junior year.
1 credit. Professor W. B. DUNNING.

Lecture and conference course with collateral reading and essays.

Theory and Practice 283—Dental economics. Senior year. 1 credit. Professor
W. B. DUNNING.

Lecture and conference course in dental economics, office conduct, and routine.

TEXTBOOKS

The following list includes most of the books recommended. For the convenience of those who wish to determine their expenses in advance, there are appended the lowest prices at which the books, in cloth binding, can be purchased in New York City. These prices are liable to fluctuation. As a rule, the latest editions only of the textbooks should be purchased. Students are warned against buying any books until specifically advised by the departments concerned.

ANATOMY. Gross anatomy. Cunningham, *Manual of Practical Anatomy*, \$12.75 a set. Choice of: Cunningham, *Textbook of Anatomy*, \$10.00; Gray, *Anatomy*, \$12.00; Piersol, *Human Anatomy*, \$10.00.

Microscopic anatomy. Bailey, *Textbook of Histology* (9th ed.), \$6.00.

Neuroanatomy. Choice of: Bailey, *Histology* (7th ed.); Strong and Elwyn, *Human Neuroanatomy*; Larsell, *Textbook of Neuroanatomy and Sense Organs*, \$6.00; Mettler, *Neuroanatomy*, \$7.50; Ranson, *Anatomy of the Nervous System*, \$6.50.

Oral anatomy. Diamond, *Dental Anatomy* (2d revised ed.), \$4.50.

Oral histology and embryology. Required: Bodecker, *Fundamentals of Dental Histology and Embryology* (Columbia ed.), \$3.00; *Laboratory Manual and Drawing Notebook*, *Oral Histology and Embryology*, \$1.00.

BACTERIOLOGY. Jordan and Burrows, *Textbook of Bacteriology*, \$6.00. Reference book: Gordon, et al, *Dental Science and Dental Art*, \$9.50.

BIOCHEMISTRY. Bodansky, *Introduction to Physiological Chemistry*, \$4.00; Hawk and Bergeim, *Practical Physiological Chemistry*, \$8.00.

CROWN AND BRIDGE. Mimeographed notes furnished by the Department. Recommended but not required: Le Gro, *Ceramics in Dentistry*, \$7.50; Felcher, *Porcelain in Dentistry*, \$9.00; Tylman, *Crown and Bridge Prosthesis*, \$10.00.

DENTAL MATERIALS. *Physical Properties of Dental Materials*, Bureau of Standards Circular C 433, United States Government Printing Office, 75 cents.

DIAGNOSIS. Mimeographed material furnished by the Department.

MEDICINE. Suggested but not required: Cecil, *Textbook of Medicine*, \$9.50; Comroe, Collins, and Crane, *Internal Medicine in Dental Practice*, \$5.50; Meakins, *Practice of Medicine*, \$10.00.

OPERATIVE DENTISTRY. Required: Black, *Operative Dentistry*, Vols. II and III, \$5.50 each. Mimeographed notes are also furnished by the Department.

ORTHODONTICS. Recommended for collateral reading: Strang, *Textbook of Orthodontia*, \$10.00; Dewey and Anderson, *Practical Orthodontia* (15th ed.), \$8.50; McCoy, *Applied Orthodontia* (5th ed.), \$4.50.

PATHOLOGY. Boyd, *Textbook of Pathology*, \$10.00; MacCallum, *Textbook of Pathology*, \$10.00.

PERIODONTOLOGY. Suggested but not required: Goldman, *Periodontia*; Hirschfeld, *The Toothbrush*; Merritt, *Periodontia*.

PHARMACOLOGY. *Accepted Dental Remedies*, \$1.00. Choice of: Bastedo, *Materia Medica, Pharmacology, Therapeutics and Prescription Writing*, \$6.50; Blayney, *Dental Pharmacology*, \$4.00; Cushny, *Pharmacology and Therapeutics*, \$6.50; McGehee, *Dental Pharmacology*, \$5.00; Sollmann, *Manual of Pharmacology*, \$8.75.

PROSTHETIC DENTISTRY. Recommended but not required: Anthony, *American Text-book of Prosthetic Dentistry*, \$11.00; Frahm, *Principles and Technics of Full Denture Construction*, \$7.00; E. Kennedy, *Partial Denture Construction*, \$7.50; Nichols, *Prosthetic Dentistry*, \$12.50; Swenson, *Complete Dentures*, \$10.00.

PSYCHIATRY. Henderson and Gillespie, *Textbook on Psychiatry*, \$6.00; Hinsie, *Syllabus of Psychiatry*, \$2.50; Muncie, *Psychobiology and Psychopathology*, \$8.00; Noyes, *Modern Clinical Psychiatry*, \$5.00; Strecker, *Fundamentals of Psychiatry*, \$3.00; Strecker and Ebaugh, *Practical Clinical Psychiatry*, \$5.00.

PUBLIC HEALTH. Mustard, *Rural Health Practice*, \$4.00; Salzmann, *Principles and Practice of Public Health in Dentistry*, \$4.00.

RADIOLOGY. Recommended but not required: Ennis, *Dental Roentgenology* (3d ed.), \$6.50; Holliday, *Dental Radiology Handbook*, \$2.00.

SURGERY. Required: Berger, *Principles and Technique of Oral Surgery*, \$7.00; Fischer and Reithmuller, *Local Anesthesia*, \$4.50; Homans, *Textbook of Surgery*, \$8.00. Recommended but not required: Berger, *Principles and Technique of the Removal of Teeth*, \$7.50; Blair and Ivy, *Essentials of Oral Surgery*, \$6.50; Flagg, *Art of Anesthesia*, \$5.00; Stout, *Human Cancer*, \$10.00.

DICTIONARY. W. B. Dunning and S. E. Davenport, *A Dictionary of Dental Science and Art*, \$6.50. Choice of: Dorland, *Illustrated Medical Dictionary*, \$7.50; Gould, *Medical Dictionary*, \$7.50; Stedman, *Medical Dictionary*, \$7.50.

REGISTER OF STUDENTS

MARCH 22, 1943 TO DECEMBER 18, 1943

GRADUATES—MARCH 17, 1943

Acquista, Charles Brooklyn, N. Y.
B.S., St. John's (N. Y.), 1939
Berman, Melvin Gilbert Staten Island, N. Y.
A.B., New York University, 1939
Bodkin, Francis Fisher Brooklyn, N. Y.
A.B., Georgetown, 1935
Columbia Medical School
Brignole, Louis Frank Jackson Heights, N. Y.
A.B., New York University, 1937
Budowsky, Jack Brooklyn, N. Y.
New York University
Burke, Edmund William Brooklyn, N. Y.
B.S., Fordham, 1939
Colmer, George Arthur New York City
B.S., Rutgers, 1939
Coyle, James Gerard Hollis, N. Y.
Fordham
Cruson, Daniel John Bridgeport, Conn.
B.S., Trinity (Conn.), 1939
Diner, Harold Brooklyn, N. Y.
New York University
Di Stasi, Samuel Michael Forest Hills, N. Y.
A.B., New York University, 1939
Dittmar, Adolph Gustav, Jr. Richmond Hill, N. Y.
A.B., Hobart, 1936
A.M., Columbia, 1939
Dragiff, David Abraham Brooklyn, N. Y.
B.S., College of the City of New York, 1939
Engel, Albert King Jersey City, N. J.
A.B., Columbia, 1939
Feldman, Alvin Jonathan New York City
A.B., Pennsylvania, 1939
Goldsmith, Milton Brooklyn, N. Y.
B.S., College of the City of New York, 1935
Gordon, Emanuel J. Brooklyn, N. Y.
B.S., College of the City of New York, 1939
Gordon, Naomi Coval (Mrs.) New York City
A.B., New York University, 1939
Gottlieb, Eugene New York City
A.B., Columbia, 1939
Gottsegen, Robert New York City
A.B., Michigan, 1939
Hall, Charles Mervin Oakhurst, N. J.
New York University
Hersey, Glenwood Irving Beverly, Mass.
A.B., Columbia, 1938
Columbia Medical School
Hindels, George New York City
Vereins-Realgymnasium (Vienna)
University of Vienna
Hollis, Alfred Walter Flushing, N. Y.
College of the City of New York
New York University
Hopengarten, Sol New York City
A.B., New York University, 1939
Jaffe, Alfred Newport, R. I.
B.S., Columbia, 1943
Kaplan, Jacob Israel Brooklyn, N. Y.
A.B., New York University, 1938

Karmioli, Mortimer New York City
B.S., College of the City of New York, 1939
Karp, Alfred Jersey City, N. J.
New York University
Lometti, Guido Mario New York City
A.B., Fordham, 1939
McCue, Matthew Cornelius Elizabeth, N. J.
B.S., Fordham, 1939
McKeon, Charles James New York City
B.S., Manhattan, 1931
Mandrachia, Stephen Vito Brooklyn, N. Y.
Brooklyn
St. John's (N. Y.)
Markowitz, Joseph Robert New York City
A.B., New York University, 1939
Medaglia, Joseph Mario New York City
B.S., College of the City of New York, 1938
Menken, Norman Jackson Heights, N. Y.
New York University
Mozzer, Raymond Richard Manchester, Conn.
B.S., Fordham, 1939
Sarubbi, Joseph Felix Yonkers, N. Y.
B.S., Manhattan, 1939
Schept, Chester Union City, N. J.
A.B., Washington and Lee, 1938
Shesler, Laurence Frank, Jr. Yonkers, N. Y.
A.B., Columbia, 1940
Smith, Alexander Bryant Glen Cove, N. Y.
St. John's (N. Y.)
Stern, John Paul New York City
A.B., Columbia, 1939
Tascher, Paul Joseph Brooklyn, N. Y.
New York University
Varteressian, Levon Antoine Laurelton, N. Y.
New York University
Vierno, Joseph Daniel New York City
A.B., Brooklyn, 1939
Vogel, Stanley William New York City
B.S., Columbia, 1939
Wagreich, Paul New York City
B.S., College of the City of New York, 1939
Wellward, Robert Russell New York City
B.S., New York University, 1939
Westover, Warren Osmer Oxford, N. Y.
A.B., Columbia, 1940
Wolfram, Robert Sutter Jamaica, N. Y.
B.S., St. Peter's (N. J.), 1938
Long Island College of Medicine
Yates, John Berchmans Brooklyn, N. Y.
A.B., Holy Cross, 1939
Yellin, Jacob Louis New York City
A.B., Johns Hopkins, 1938
Zulch, Frederick Raymond White Plains, N. Y.
A.B., Brown, 1939

FOURTH YEAR—CLASS OF DECEMBER, 1943

Bell, Harold Malcolm Bridgeport, Conn.
B.S., Yale, 1939
Berck, Leo New York City
College of the City of New York

Bevilacqua, Thomas Joseph	Brooklyn, N. Y.	Norian, Henry Kařop	Thompsonville, Conn.
A.B., Columbia, 1939		B.S., Trinity (Conn.), 1941	
Bongiorno, Alfred Michael	Brooklyn, N. Y.	Piper, Albert Omar	Waterville, Maine
A.B., Columbia, 1939		B.S., Colby, 1936	
Brzustowicz, Stanislaw Henry	Brooklyn, N. Y.	McGill Medical School	
B.S., St. John's (N. Y.), 1940		Plotnick, Samuel	New York City
Buchsbaum, Robert Bernard		A.B., Columbia, 1940	
	New York City	Reilly, John Temple	St. Albans, N. Y.
A.B., College of the City of New York, 1940		B.S., Fordham, 1940	
Bushel, Arthur	Brooklyn, N. Y.	Rifkin, Meyer	Yonkers, N. Y.
A.B., Brooklyn, 1940		New York University	
Caltabiano, Henry Ignazio	Brooklyn, N. Y.	Schneer, Richard Moses	Far Rockaway, N. Y.
New York University		A.B., Virginia, 1940	
Carlucci, Joseph Patrick	New York City	Senderowitz, Samuel	Brooklyn, N. Y.
B.S., Notre Dame, 1940		A.B., New York University, 1939	
Catalano, Philip Patrick	Brooklyn, N. Y.	Shattan, Boaz	Kingston, N. Y.
B.S., St. John's (N. Y.), 1940		A.B., Columbia, 1940	
Corcoran, John William	Central Islip, N. Y.	Slipuntoff, Harry	New York City
A.B., Columbia, 1940		B.S., College of the City of New York, 1939	
Daglian, Kourken Arshag	New York City	Smith, David Joseph	Brooklyn, N. Y.
B.S., College of the City of New York, 1941		New York University	
Devlin, Francis Patrick	Jersey City, N. J.	Soraci, Frank Nicholas	Yonkers, N. Y.
B.S., St. Peter's (N. J.), 1940		B.S., Manhattan, 1940	
Fiasconaro, Joseph Eugene	Corona, N. Y.	Taggard, Joseph Franklyn, Jr.	New York City
B.S., College of the City of New York, 1940		B.S., Manhattan, 1939	
Flashner, Jesse	New York City	Cornell Medical School	
A.B., New York University, 1940		Tannenbaum, David	New York City
Friedman, Irving	Brooklyn, N. Y.	B.S., College of the City of New York, 1934	
New York University		Urbano, Armand Paul	New York City
Gutcho, Sanford Joseph	Brooklyn, N. Y.	B.S., Manhattan, 1939	
A.B., New York University, 1939		Vigersky, Harold	Jersey City, N. J.
Heidenreich, Irwin Paul	New York City	St. Peter's (N. J.)	
New York University		Wesolowski, Vincent Thomas	Brooklyn, N. Y.
Hirschfeld, Leonard Saul	New York City	St. John's (N. Y.)	
A.B., Columbia, 1941		Zane, Jerome Arthur	New York City
Isaacson, Alfred Elliot	New York City	New York University	
New York University			
Kaplan, Stanley Lippmann	Brooklyn, N. Y.		
B.S., College of the City of New York, 1938			
D.D.S., Iowa, 1942			
Lifton, Simon Louis	Long Island City, N. Y.		
A.B., Columbia, 1939			
Link, Nathan Harold	Bradenton, Fla.		
B.S., Bowling Green Business University, 1938			
Lipson, Louis	Staten Island, N. Y.		
B.S., Columbia, 1939			
Malgieri, Anthony Mario	White Plains, N. Y.		
B.S., Fordham, 1940			
Massin, Murray Aaron	New York City		
A.B., Michigan, 1940			
May, Edward Joseph	Brooklyn, N. Y.		
A.B., Columbia, 1941			
Mendelson, Max	New York City		
A.B., Brooklyn, 1940			
Miller, William John	Woodside, N. Y.		
A.B., New York University, 1940			
Mondshine, Stanley	Brooklyn, N. Y.		
A.B., New York University, 1940			
Mostofsky, Paul	Brooklyn, N. Y.		
B.S., College of the City of New York, 1940			
Mufson, Abraham Isaac	New York City		
B.S., New York University, 1938			
Nahoum, Henry Isaac	Brooklyn, N. Y.		
A.B., Brooklyn, 1940			
Nief, Stanley Frederick	Teaneck, N. J.		
A.B., Cornell, 1940			

THIRD YEAR—CLASS OF SEPTEMBER, 1944

Amontree, Edward J.	New York City
A.B., Columbia, 1941	
Bershadsky, Sol Charles	Bayonne, N. J.
A.B., New York University, 1940	
Bibbo, James Vincent, Jr.	New York City
A.B., Syracuse, 1941	
Caulfield, Bernard Morris	Bayside, N. Y.
B.S., St. John's (N. Y.), 1941	
Citron, Sherman Ross	Brooklyn, N. Y.
A.B., Columbia, 1939	
A.M., Columbia, 1940	
Cole, Robert Merton	Tarrytown, N. Y.
A.B., Columbia, 1942	
Conte, Joseph Frank	Tuckahoe, N. Y.
B.S., Manhattan, 1941	
Cornell, Peter Joseph	Brooklyn, N. Y.
B.S., St. John's (N. Y.), 1941	
DeLuke, Dominick Joseph	Schenectady, N. Y.
A.B., Vanderbilt, 1941	
Dene, Ralph William	Brooklyn, N. Y.
A.B., Brooklyn, 1941	
Desmond, Jeremiah Joseph	New Haven, Conn.
B.S., Fordham, 1939	
Dorsey, John Henry	Portland, Maine
B.S., Bowdoin, 1941	
Fookson, George	New York City
A.B., New York University, 1941	
Fusco, Fulvio Francis	New York City
B.S., College of the City of New York, 1940	

Largey, John Francis	New York City	Ellison, Solon Arthur	New York City
B.S., Niagara, 1942		B.S., College of the City of New York, 1942	
Lieberman, Julius	New York City	Elvershofen, Walter	New York City
B.S., College of the City of New York, 1933		Columbia	
M.S., College of the City of New York, 1940		Fenning, Howard Rassler	Middletown, N. Y.
Madden, Robert Francis	Lake Placid, N. Y.	A.B., Lafayette, 1942	
Fordham		Fitz-Gibbon, John Hamilton	Holyoke, Mass.
Mandel, Irwin Daniel	Brooklyn, N. Y.	Providence	
B.S., College of the City of New York, 1942		Frank, Charles, Jr.	Jamaica Estates, N. Y.
Menasche, Salvatore	Brooklyn, N. Y.	Niagara	
A.B., Brooklyn, 1942		Garber, Martin Aaron	Providence, R. I.
Miringoff, Aaron Yale	New York City	Providence	
B.S., College of the City of New York, 1941		Gladue, Wilfred Harold	Woonsocket, R. I.
Mitchell, Joseph James	Brooklyn, N. Y.	B.S., Rhode Island State, 1943	
B.S., St. John's (N. Y.), 1941		Halpert, Wesley	New York City
Mohr, Irving Ward	New York City	B.S., College of the City of New York, 1943	
A.B., New York University, 1942		Jordan, Edward Matthew	Flushing, N. Y.
Morelli, Nicholas Francis	Catskill, N. Y.	B.S., Niagara, 1942	
A.B., Union, 1942		Katz, Lester Edwin	New York City
Oliveri, Gaspar Anthony	Brooklyn, N. Y.	New York University	
B.S., St. John's (N. Y.), 1942		Kotch, Raymond Leonard	New York City
Ostreicher, Herbert Paul	Jackson Heights, N. Y.	College of the City of New York	
Columbia		Kutscher, Austin Harrison	New York City
Sarkady, Lester Samuel	Brooklyn, N. Y.	New York University	
A.B., New York University, 1942		Levi, Franklin Arthur Lionel	Port Chester, N. Y.
Shwalb, Richard Abraham	Brooklyn, N. Y.	New York University	
Columbia		Levin, Alfred Warren	New York City
Siegel, Fred Morris	Schenectady, N. Y.	New York University	
Union		McElroy, Joseph Raymond	Brooklyn, N. Y.
Steinberg, Charles	New York City	St. John's University	
B.S., College of the City of New York, 1941		Mandel, Louis	New York City
Stella, Armand M.	New York City	New York University	
B.S., Manhattan, 1942		Minervini, George August	Yonkers, N. Y.
Stern, Leo	New York City	A.B., Columbia, 1942	
Columbia		More, Franklin Benjamin	New York City
Stone, Arnold	Flushing, N. Y.	B.S., Manhattan, 1939	
Queens		A.M., Columbia, 1942	
Tolge, Reinhold Bruno	Schenectady, N. Y.	Morris, Robert Darcy	Jackson Heights, N. Y.
Union		A.B., Fordham, 1943	
Zeh, William George	Glendale, N. Y.	Moss, Melvin Lionel	New York City
B.S., Long Island, 1942		A.B., New York University, 1942	
FIRST YEAR—CLASS OF MARCH, 1946			
Archer, William Harold	White Plains, N. Y.	Mulcahy, Michael Joseph	New York City
A.B., Fordham, 1943		St. John's University	
Arden, Howard Anthony	Jackson Heights, N. Y.	Olinger, Donald Sundell	Glen Ridge, N. J.
B.S., Fordham, 1943		Pennsylvania	
Ballin, Bert	New York City	Panebianco, John Thomas	New York City
Oberlin		B.S., Fordham, 1942	
Cali, Vincent	New York City	Piro, John Donald	New York City
College of the City of New York		Fordham	
Campbell, Paul Stine	Washington, D. C.	Rechter, Alfred	New York City
Redlands		College of the City of New York	
Castiglia, Hannibal Louis	Astoria, N. Y.	Schonberg, Leon	New York City
Columbia		College of the City of New York	
Chason, Sidney	Bangor, Maine	Schultz, Wilbert James	New York City
Bowdoin		A.B., Hofstra, 1939	
Chnapko, Victor Peter	New York City	Schustak, Robert Leslie	Rockaway Beach, N. Y.
B.S., Long Island, 1942		New York University	
Della Rocca, Vincent Paul	New York City	Shapiro, Robert Leonard	Springfield, Mass.
New York University		Vermont	
De Nicola, Ralph	Jackson Heights, N. Y.	Smith, Robert Frederick	Manhasset, N. Y.
Columbia		Holy Cross	
De Vito, Joseph John	Brooklyn, N. Y.	Sommer, Gordon Alexander	Utica, N. Y.
Columbia		B.S., Idaho, 1940	
		Columbia Medical School	

Stirling, Martin Theodore	Brooklyn, N. Y.	Handler, Allan Aaron	New York City
A.B., Brooklyn, 1943		B.S., New York University, 1933	
Stone, Melvin Joseph	Dorchester, Mass.	D.D.S., Columbia, 1937	
B.S., Tufts, 1943		Larson, Carroll Marvin	Brooklyn, N. Y.
Sved, Erda Rosa	New York City	D.D.S., Pennsylvania, 1930	
Russell Sage		Mossberg, David	New York City
Wisconsin		D.D.S., Pennsylvania, 1934	
Valinoti, Joseph Robert	Brooklyn, N. Y.	Peaks, Mary Jane	Hollis, N.Y.
Fordham		D.D.S., Pennsylvania, 1939	
Weissman, Bertram	New York City	Santeramo, John Raymond	Brooklyn, N. Y.
College of the City of New York		B.S., St. John's (N. Y.), 1937	
Winter, Lester Weiss	New York City	D.D.S., Maryland, 1941	
B.S., College of the City of New York, 1929		Schoeneman, Bertram	New York City
A.M., New York University, 1939		A.B., Alabama, 1935	
Wishengrad, Elaine Roslyn	New York City	D.D.S., Columbia, 1939	
Brooklyn		Sexauer, Paul Christian	New York City
Illinois		B.S., Long Island, 1938	
Wuthenow, Albert Eugene	Jackson Heights, N. Y.	D.D.S., Columbia, 1940	
Fordham		Sheldon, Joseph Alfred	Closter, N. J.
Zachinsky, Leo	New York City	D.D.S., Louisville, 1933	
A.B., New York University, 1942			
Zingesser, Maurice Roy	New York City		
A.B., New York University, 1942			

SPECIAL STUDENTS

Clinical Practice

Lehmer, Earle	Bronxville, N. Y.
D.D.S., Pennsylvania, 1930	
McLean, Lionel Deckle	Jersey City, N. J.
D.D.S., Howard, 1928	

SUMMARY

Berry, Morris Matthew	Atlantic City, N. J.
D.D.S., Temple, 1931	
Brown, Edwin Alvin	Bangor, Maine
D.D.S., Dalhousie, 1941	
Burnley, Maurice Albert	Cleveland, Ohio
D.D.S., Western Reserve, 1928	
Corn, Arthur M.	Jamaica, N. Y.
A.B., New York University, 1935	
D.D.S., New York University, 1939	
Erdreich, Ulysses	Brooklyn, N. Y.
B.S., Columbia, 1937	
D.D.S., Columbia, 1941	

Graduates—March 17, 1943.....	53
Fourth Year—December, 1943.....	51
Third Year—September, 1944.....	50
Second Year—June, 1945.....	46
First Year—March, 1946.....	52
Candidates for the certificate of proficiency..	13
Special postgraduate students.....	2
Total.....	267

CONDENSED ACADEMIC CALENDAR

The complete Academic Calendar for the year 1943-1944 may be obtained from the Secretary of the University.

1943

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)

The privilege of registration after the period specified may be granted on payment of a late registration fee.

March	19	Friday, and March 20, Saturday. Registration and payment of fees for all new students.
March	22	Monday, to March 24, Wednesday. Registration for all other students.
April	5	Monday, and April 6, Tuesday. Registration and payment of fees for candidates for the certificate of proficiency.

March	22	Monday. New academic year begins for all undergraduate dental students.
April	7	Wednesday. Classes begin for applicants for the certificate of proficiency.
April	15	Thursday. Last day for filing applications for the certificate of proficiency to be conferred in June. The privilege of later application may be granted on payment of a late fee.
April	23	Friday. Good Friday. University holiday.
May	31	Monday, to July 4, Sunday, inclusive. Summer vacation.
July	1	Thursday, to July 3, Saturday. Registration and payment of fees for all undergraduate dental students for the Summer Session.
September	20	Monday, to September 22, Wednesday. Registration and payment of fees for all undergraduate dental students for Winter Session.
October	1	Friday. Last day for filing applications for the certificate of proficiency to be conferred in October. The privilege of later application may be granted on payment of a late fee.
October	4	Monday, and October 5, Tuesday. Registration and payment of fees for all applicants for the certificate of proficiency.
October	6	Wednesday. Classes begin for applicants for certificate of proficiency.
November	1	Monday. Last day for filing of applications or renewal of application for the degree of D.D.S. to be conferred in December. The privilege of later application may be granted on payment of a late fee.
November	25	Thursday. Thanksgiving day. Holiday.
December	20	Monday, to

1944

January	2	Sunday, inclusive. Christmas holidays.
January	3	Monday. New academic year begins for all undergraduate dental students.
February	12	Saturday. Alumni Day. Not a University holiday.
April	7	Friday. Good Friday. University holiday.
April	15	Saturday. Last day for filing of applications for the certificate of proficiency to be conferred in June. The privilege of later application may be granted on payment of a late fee.
May	30	Tuesday. Memorial Day. Not a holiday.

All dates subject to change to conform to Army and Navy regulations.

1943								1944								1944								
JULY								JANUARY								JULY								
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S		
....	....	....	....	1	2	3		....	....	....	....	....	....	1		....	....	....	....	....	....	1	
4	5	6	7	8	9	10		2	3	4	5	6	7	8		2	3	4	5	6	7	8		
11	12	13	14	15	16	17		9	10	11	12	13	14	15		9	10	11	12	13	14	15		
18	19	20	21	22	23	24		16	17	18	19	20	21	22		16	17	18	19	20	21	22		
25	26	27	28	29	30	31		23	24	25	26	27	28	29		23	24	25	26	27	28	29		
....	....	....	....	....	....	....		30	31	....	....	....	....	....		30	31	....	....	....	....	....
AUGUST								FEBRUARY								AUGUST								
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S		
1	2	3	4	5	6	7		....	....	1	2	3	4	5		....	....	1	2	3	4	5	
8	9	10	11	12	13	14		6	7	8	9	10	11	12		6	7	8	9	10	11	12		
15	16	17	18	19	20	21		13	14	15	16	17	18	19		13	14	15	16	17	18	19		
22	23	24	25	26	27	28		20	21	22	23	24	25	26		20	21	22	23	24	25	26		
29	30	31	....	....	....	....		27	28	29	....	....	....	....		27	28	29	30	31	....	....
SEPTEMBER								MARCH								SEPTEMBER								
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S		
....	....	....	....	1	2	3	4	....	....	....	....	1	2	3	4	....	....	....	....	....	1	2	
5	6	7	8	9	10	11		5	6	7	8	9	10	11		3	4	5	6	7	8	9		
12	13	14	15	16	17	18		12	13	14	15	16	17	18		10	11	12	13	14	15	16		
19	20	21	22	23	24	25		19	20	21	22	23	24	25		17	18	19	20	21	22	23		
26	27	28	29	30	....	....		26	27	28	29	30	31	....		24	25	26	27	28	29	30	
OCTOBER								APRIL								OCTOBER								
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S		
....	....	....	....	....	1	2		....	....	....	....	....	....	1		1	2	3	4	5	6	7	
3	4	5	6	7	8	9		2	3	4	5	6	7	8		8	9	10	11	12	13	14		
10	11	12	13	14	15	16		9	10	11	12	13	14	15		15	16	17	18	19	20	21		
17	18	19	20	21	22	23		16	17	18	19	20	21	22		22	23	24	25	26	27	28		
24	25	26	27	28	29	30		23	24	25	26	27	28	29		29	30	31	....	....	....	....
31	....	....	....	....	....	....		30	....	....	....	....	....	....		....	....	....	....	....	....	....
NOVEMBER								MAY								NOVEMBER								
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S		
....	1	2	3	4	5	6		....	1	2	3	4	5	6		....	....	....	1	2	3	4	
7	8	9	10	11	12	13		7	8	9	10	11	12	13		5	6	7	8	9	10	11		
14	15	16	17	18	19	20		14	15	16	17	18	19	20		12	13	14	15	16	17	18		
21	22	23	24	25	26	27		21	22	23	24	25	26	27		19	20	21	22	23	24	25		
28	29	30	....	....	....	....		28	29	30	31	....	....	....		26	27	28	29	30	....	....
....		
DECEMBER								JUNE								DECEMBER								
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S		
....	1	2	3	4	1	2	3	1	2	3	
5	6	7	8	9	10	11		4	5	6	7	8	9	10		4	5	6	7	8	9	10		
12	13	14	15	16	17	18		11	12	13	14	15	16	17		11	12	13	14	15	16	17		
19	20	21	22	23	24	25		18	19	20	21	22	23	24		18	19	20	21	22	23	24		
26	27	28	29	30	31		25	26	27	28	29	30		25	26	27	28	29	30	31		

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